



GAS MITIGATION MONTHLY REPORT - MAY 2023

Property:

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

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

July 31, 2023

Prepared for:

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

Prepared by:


Beaux Jennings
Senior Project Manager

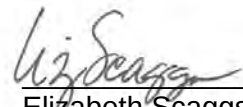

Elizabeth Scaggs, PG
Principal



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ENSOLUM

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Order No. R-4934-F, Case No. 14981
Incident ID No. nAPP2227033082**

1.0 INTRODUCTION

1.1 Site Description & Background

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

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

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

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

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

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

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

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During the May 2023 groundwater sampling event the groundwater samples did not exhibit constituent concentrations above New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards* (GQSs), with the exception of benzene, Nitrate as N, Nitrite as N and TDS. Benzene concentrations ranged from 0.00988 milligrams per liter (mg/L) to 0.0164 mg/L in monitoring well MW-2. A Nitrate as N exceedance of 10.4 mg/L was also observed in the Levey Well. In addition, several Nitrite as N exceedances ranging from 1.32 mg/L to 2.26 mg/L were observed in the Levey Well as well as monitoring wells MW-1 and MW-2. TDS concentrations ranged from 1,290 mg/L to 1,680 mg/L in the Levey Well. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). The groundwater analytical summary tables are included in **Appendix B**.

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

To mitigate potential exposures, the Levey residence was purchased by OXY and remains unoccupied. A passive vent was installed on the Levey Well to mitigate safety and explosivity concerns for the residential and work area. There has been no detectable build-up of pressure in the Levey Well or monitoring wells MW-1 and MW-2. Hydrogen sulfide (H₂S) has not been detected in any of the three aforementioned 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 5/30/2023, with no pressure observed in either monitoring well. The pressure reading chart available for May 2023 is included in **Appendix D**.

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

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

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

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

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

1.2 Groundwater Recovery – Levey Well

As of July 1, 2021, the Levey Well has run full time and recovered groundwater is transferred via flowline to a nearby tank for proper disposal. The groundwater recovered from the Levey Well during May 1 - 30, 2023 was approximately 666,562 gallons.

1.3 Gas Recovery – Levey Well

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

2.0 AIR AND GROUNDWATER MONITORING

2.1 Air Sampling Program

Levey Well

The air samples from May 1 and 30, 2023, were taken prior to, during, and subsequent to the vacuum recovery event utilizing Summa[®] canisters. Upon arrival at the Site, the Levey Well is turned off and allowed to stabilize for approximately one hour. An air sample is taken after one hour of the Levey Well stabilization, prior to initiating the vacuum recovery event.

During the May 1 and 30, 2023 vacuum recovery events, 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 May 2023 sampling events are provided in **Appendix C**.

2.2 Groundwater Sampling Program

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

Levey Well

As of July 1, 2021, the Levey water well ran full time until February 2, 2022. The Levey well recovered groundwater is transferred via flowline to a nearby tank battery for proper disposal. Prior to sample collection, the Levey Well is turned off and allowed to stabilize for approximately one hour prior to sampling. Once the Levey Well is properly purged and readings from the AquaTROLL 500 stabilize, a groundwater sample is collected.

As previously stated, due to a severe winter storm on February 2, 2022, the Levey well flowline pump was damaged. Replacement parts were ordered, the pump was repaired and has been active since March 14, 2022.

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.

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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 of 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 June 2023. Based on the concentrations observed in the Levey Well air samples, the vacuum recovery events are drawing the free gas over to the Levey Well. Prior to each vacuum recovery event, an air sample is taken to give a representative snapshot of static conditions of gas in the subsurface. Elevated concentrations of ethylbenzene, n-hexane, 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, ethylbenzene, n-hexane, 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, 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.

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Air samples are also collected on a bi-weekly basis approximately one week subsequent to the vacuum recovery event. During each of the bi-weekly air sampling events, elevated concentrations of ethylbenzene, 4-ethyltoluene, heptane, n-hexane, isopropylbenzene, 2-propanol, 1,2,4-trimethylbenzene, 1,3,5-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 May 2023 groundwater samples collected from the Levey Well and monitoring wells MW-1 and MW-2 to the New Mexico WQCC GQSs. The results of the groundwater sample analyses are summarized in **Table 1** through **Table 3** of **Appendix B**. All analytical results were below the WQCC GQSs, with the exception of the analytes, as discussed below.

Levey Well

TDS concentrations of 1,290 mg/L to 1,680 mg/L were observed during the May 2023 sampling. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). Specifically, for the 20 water supply wells sampled by the USGS in Southern Lea County with TDS analyses, the median TDS concentration was 722 mg/L, and the 75th percentile TDS concentration was 1,953 mg/L.

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

Monitoring Well MW-1 and MW-2

The groundwater samples collected from monitoring well MW-1 did not exhibit benzene concentrations above the WQCC GQS of 0.005 mg/L. The groundwater samples collected from monitoring well MW-2 exhibited benzene concentrations ranging from 0.00988 mg/L to 0.0164 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

One Nitrate as N exceedance of 10.4 mg/L from the Levey Well was also observed during one of the May 2023 sampling events, which is above the WQCC GQS of 10.0 mg/L.

In addition, several Nitrite as N exceedances ranging from 1.32 mg/L to 2.26 mg/L were observed in the Levey Well as well as monitoring wells MW-1 and MW-2, which is above the WQCC GQS of 1.0 mg/L.

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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 2023 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 2023;**
- **Utilizing monitoring well MW-2, continue to remove free gas accumulations from the underlying red bed and groundwater-bearing zone on a bi-weekly basis to acceptable levels of removal to achieve compliance expectations. The air sampling process performed at the Levey Well will continue utilizing monitoring well MW-2, as described in Section 2.1; and**
- **Continue to monitor MW-2 utilizing daily pressure checks for significant changes in pressure, which could indicate a secondary source, until compliance of free gas removal is achieved.**

5.0 REFERENCES

GSI Environmental Inc. Preliminary Draft -Results of Water Supply Well Sampling and Investigation. November 2019. Hobbs New Mexico Municipal Code, Title 13.04.017. Accessed Sept. 2020.

New Mexico Environment Department. 2018. 20.6.2 NMAC: Title 20 (Environmental Protection), Chapter 6 (Water Quality), Part 2 (Ground and Surface Water Protection). Amended December 11th, 2019.

Nicholson, Jr. A. and A. Clebsch, Jr. 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. United States Geological Survey Ground-Water Report 6. Prepared in cooperation with the New Mexico Institute of Mining and Technology, State Bureau of Mines and Mineral Resources Division and the New Mexico State Engineer.

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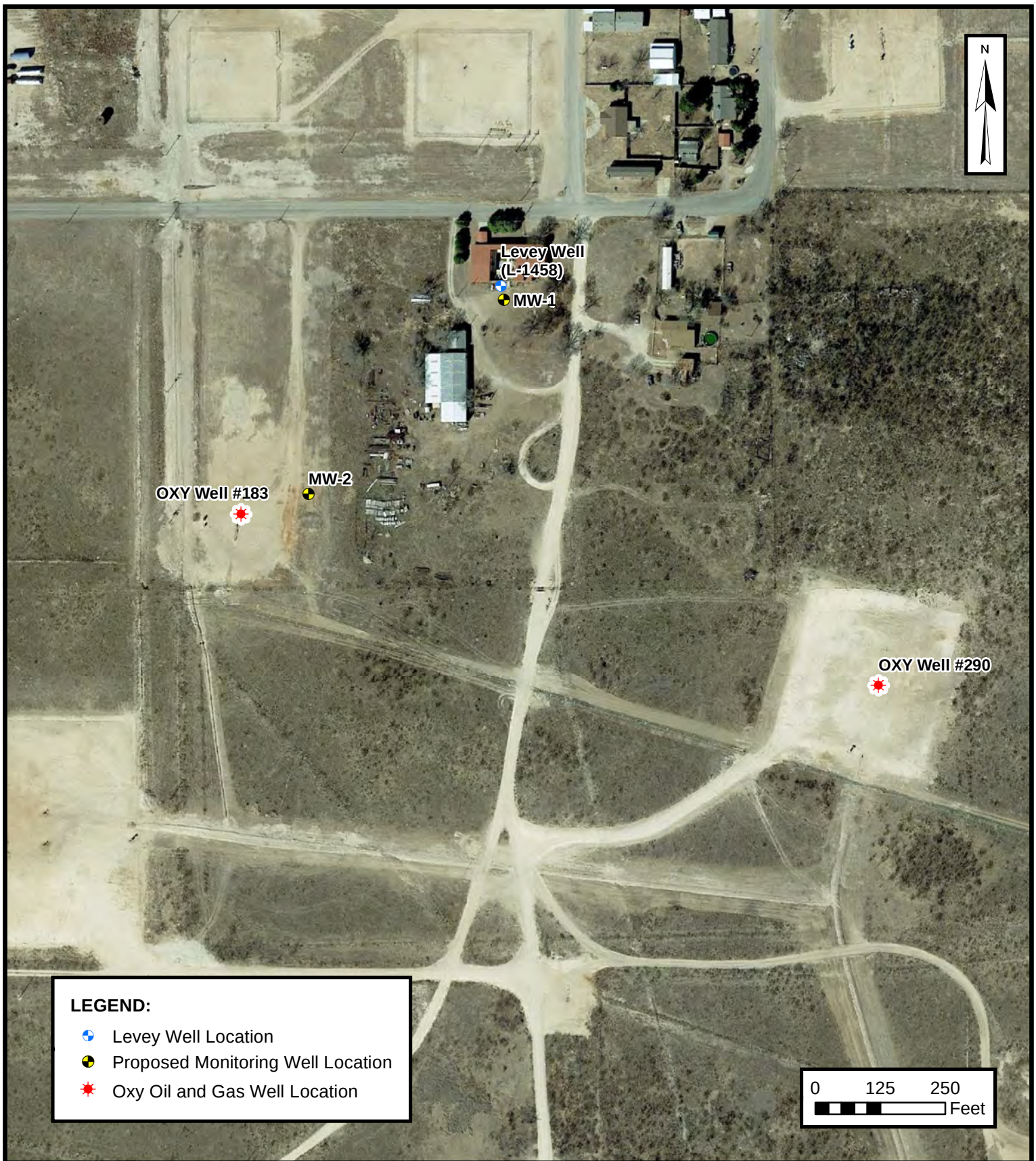


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- Molofsky, L.J., Richardson, S.D., Gorody, A.W., Baldassare, F., Connor, J.A., McHugh, T.E., Smith, A.P., Wylie, A.S., Wagner, T., 2018. Purging and other sampling variables affecting dissolved methane concentration in water supply wells. Sci. Total Environ. 618, 998-1007. <https://doi.org/10.1016/j.scitotenv.2017.09.077>.



APPENDIX A

Figures and Graphs



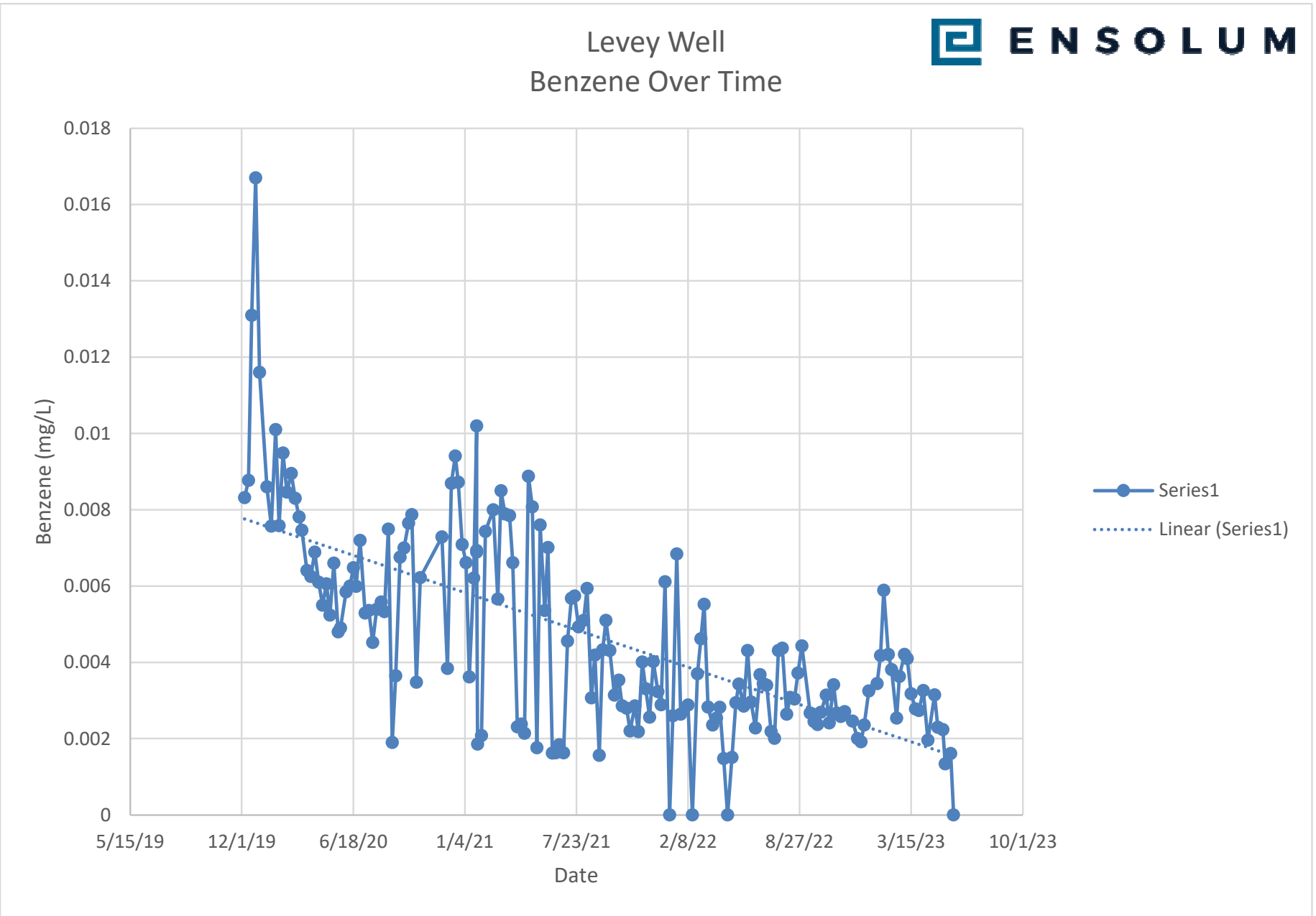
SITE MAP

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

PROJECT NUMBER: 03B1417002

FIGURE

1





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

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

Sample Designation	Date	VOCs (mg/L)																												
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE	
Levey Well	1/6/2021	0.00661	0.0494	0.0239	0.0141	0.0930	0.107	<0.0500	<0.00100	0.00233	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00140	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0122	<0.0100	0.00710	<0.00100	<0.00100	0.0334	0.0113	
	1/12/2021	0.00362	0.0206	0.0168	0.00849	0.0547	0.0632	<0.0500	0.00159	0.00278	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00157	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0105	<0.0100	0.00959	<0.00100	<0.00100	0.0540	0.0174	
	1/20/2021	0.00621	0.0383	0.0245	0.0137	0.0884	0.102	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00159	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0135	<0.0100	0.00920	<0.00100	<0.00100	0.0470	0.0152	
	1/25/2021	0.0102	0.0717	0.0337	0.0195	0.130	0.150	<0.0500	0.00167	0.00287	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00162	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0162	<0.0100	0.00914	<0.00100	<0.00100	0.0455	0.0149	
	1/25/2021	0.00689	0.0353	0.0243	0.0113	0.0733	0.0846	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0127	<0.0100	0.0115	<0.00100	<0.00100	0.0687	0.0205	
	1/25/2021	0.00693	0.0342	0.0251	0.0113	0.0737	0.0850	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00146	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0133	<0.0100	0.0124	<0.00100	<0.00100	0.0738	0.0218	
	1/27/2021	0.00186	0.00398	0.0101	0.00322	0.0219	0.0251	<0.0500	0.00110	0.00169	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00618	<0.0100	0.0125	<0.00100	<0.00100	0.0743	0.0224	
	2/3/2021	0.00208	0.00551	0.0120	0.00438	0.0262	0.0306	<0.0500	<0.00100	0.00195	<0.00100	<0.00100	<0.00100	<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	<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	<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	
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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	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	1/6/2022	0.000940 J	0.00568	0.00394	0.00181	0.0134	0.0152	<0.00270	<0.000286	0.000577 J	<0.000195	0.000654 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000397 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00213	<0.00200	0.00127	<0.000228	<0.000623	0.0168	0.00498
	1/12/2022	0.00260	0.0190	0.01020	0.00573	0.0381	0.0438	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000621 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00707	<0.00200	0.00273	<0.000228	<0.000623	0.0197	<0.000279
	1/19/2022	0.00684	0.0520	0.0252	0.0158	0.0980	0.114	0.00679 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00123	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0118	<0.00200	0.00592	<0.000228	<0.000623	0.0296	0.00947
	1/26/2022	0.00264	0.0206	0.0103	0.00604	0.0392	0.0452	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000568 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00507	<0.00200	0.00258	<0.000228	<0.000623	0.0139	0.00433
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	0.00288	0.0228	0.0122	0.00697	0.0458	0.0528	0.0112 J	<0.000286	0.00125	<0.000195	0.00194	<0.000259	<0.000318	<0.000214	<0.000183	0.000813 J	<0.000285	<0.000396	<0.000174	0.000211 J	<0.000481	0.00591	<0.00200	0.00329	<0.000228	<0.000623	0.0228	0.00693
	2/16/2022	0.000814 J	0.00676	0.00397	0.00212	0.0142	0.0163	<0.00270	<0.000286	<0.000199	<0.000195	0.00175	<0.000259	<0.000318	<0.000214	<0.000183	0.000336 J	<0.000285	0.000534 J	<0.000174	<0.000199	<0.000481	0.00202	<0.00200	0.00130	<0.000228	<0.000623	0.00924	0.00283
	2/25/2022	0.00370	0.0196	0.0133	0.00750	0.0489	0.0564	0.00976 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000696 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00626	<0.00200	0.00308	<0.000228	<0.000623	0.0131	0.00450
	3/3/2022	0.00462	0.0327	0.0162	0.00973	0.0634	0.0731	0.0180 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00731	<0.00200	0.00342	<0.000228	<0.000623	0.0140	0.00470
	3/9/2022	0.00552	0.0388	0.0204	0.0124	0.0768	0.0892	<0.00270	0.00169	0.00180	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00966	<0.00200	0.00484	<0.000228	<0.000623	0.0226	0.00720
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.00283	0.0227	0.0106	0.00619	0.0409	0.0471	<0.00270	<0.000286	0.000916 J	<0.000195	0.00174	<0.000259	<0.000318	<0.000214	<0.000183	0.000550 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00477	<0.00200	0.00238	<0.000228	<0.000623	0.0114	0.00388
	3/24/2022	0.00236	0.0178	0.00867	0.00491	0.0341	0.0390	<0.00270	0.000553 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000509 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00409	<0.00200	0.00208	<0.000228	<0.000623	0.0101	0.00323
	3/31/2022	0.00254	0.0197	0.00985	0.00574	0.0371	0.0428	0.00431 J	<0.000286	0.000932 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000605 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00482	<0.00200	0.00233	<0.000228	<0.000623	0.0121	0.00390
	4/6/2022	0.00282	0.0215	0.0106	0.00647	0.0405	0.0470	0.00381 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000581 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00491	<0.00200	0.00250	<0.000228	<0.000623	0.0125	0.00386
	4/13/2022	0.00148	0.0113	0.00559	0.00334	0.0211	0.0244	<0.00270	<0.000286	<0.000199	<0.000195	0.000531 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000351 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00269	<0.00200	0.00153	<0.000228	<0.000623	0.00856	0.00264
	4/20/2022	0.000594 J	0.00776	0.00375	0.00212	0.0158	0.0179	<0.00270	<0.000286	0.000408 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000239 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00196	<0.00200	0.000651 J	<0.000228	<0.000623	0.00643	0.00156
	4/28/2022	0.00151	0.0112	0.00540	0.00323	0.0207	0.0239	<0.00270	<0.000286	0.000523 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00238	<0.00200	0.00133	<0.000228	<0.000623	0.00733	0.00242
	5/5/2022	0.00294	0.0275	0.0130	0.00761	0.0515	0.0591	<0.00270	<0.000286	0.00117	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000709 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00600	<0.00200	0.00265	<0.000228	<0.000623	0.0145	0.00440
	5/10/2022	0.00343	0.0282	0.0132	0.00821	0.0517	0.0599	<0.00270	<0.000286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000652 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00630	<0.00200	0.00301	<0.000228	<0.000623	0.0148	0.00463
	5/19/2022	0.00285	0.0228	0.0107	0.00633	0.0424	0.0487	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000527 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.00232	<0.000228	<0.000623	0.0102	0.00345
	5/26/2022	0.00431	0.0360	0.0171	0.0109	0.0679	0.0788	<0.00270	<0.000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000918 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00840	<0.00200	0.00391	<0.000228	<0.000623	0.0182	0.00580
	6/1/2022	0.00296	0.0233	0.0107	0.00653	0.0423	0.0488	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000538 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00499	<0.00200					

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

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

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																						
	11/24/2020	0.00241	<0.000500	0.000310 J	<0.000192	0.00133 J	0.001330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.00151	0.000820 J
	12/18/2020	0.00257	<0.000500	0.000580 J	<0.000192	0.00145 J	0.00145	<0.00270	<0.000286	0.000350 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000270 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000320 J	<0.00200	0.000230 J	<0.000228	<0.000162	0.00234	0.00111
	12/23/2020	0.00159	<0.000500	0.000380 J	<0.000192	0.000970 J	0.000970 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	0.000230 J	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.000720 J	0.000360 J
	12/30/2020	0.00194	<0.000500	0.000470 J	<0.000192	0.00148 J	0.00148	<0.00270	<0.000286	0.000230 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000240 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00154	0.000750 J
	1/6/2021	0.00209	<0.000500	0.000330 J	<0.000192	0.00122 J	0.00122	<0.00270	<0.000286	0.000310 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000260 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000190 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00219	0.00103
	1/12/2021	0.00211	0.000690 J	0.000540 J	<0.000192	0.00163 J	0.00163	<0.00270	<0.000286	0.000220 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000200 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00143	0.000670 J
	1/20/2021	0.00222	<0.000500	0.000430 J	<0.000192	0.00137 J	0.00137	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00140	0.000720 J
	1/27/2021	0.00157	<0.000500	0.000400 J	<0.000192	0.00123 J	0.00123	0.00398 J	<0.000286	0.000270 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00153	0.000830 J
	2/3/2021	0.00203	<0.000500	0.000430 J	<0.000192	0.00100 J	0.00100 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000180 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00105	0.000510 J
	2/10/2021	0.00196	<0.000500	0.000560 J	<0.000192	0.00143 J	0.00143	<0.00575	<0.000286	0.000240 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000300 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00143	0.000740 J
	2/24/2021	0.00158	<0.000500	0.000460 J	<0.000192	0.00110 J	0.0011	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.000930 J	0.000490 J
	3/4/2021	0.00139	<0.000500	0.00102	<0.000192	0.00211 J	0.00211	<0.00575	<0.000286	0.000240 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000440 J	<0.00200	0.000240 J	<0.000228	<0.000162	0.00131	0.000680 J
	3/10/2021	0.00143	<0.000500	0.000490 J	<0.000192	0.000900 J	0.000900 J	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000200 J	<0.00200	<0.000179	<0.000228	<0.000162	0.000780 J	0.000370 J
	3/17/2021	0.00159	0.00112	0.000790 J	<0.000192	0.00183 J	0.00183	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000380 J	<0.00200	0.000230 J	<0.000228	<0.000162	0.00145	0.000570 J
	3/25/2021	0.00159	<0.00100	0.000533 J	<0.00100	0.00123 J	0.00123 J	<0.0500	<0.00100	0.000214 J	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.000253 J	<0.0100	<0.00100	<0.00100	<0.00100	0.00152	<0.00100
	3/31/2021	0.00161	<0.000500	0.0																									

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

[illegible]

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

Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	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	0.00143	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0189	0.00242 J	<0.000179	<0.000228	<0.000162	0.0590	0.0149
	12/18/2020	0.0263	0.0260	0.0369	0.0240	0.165	0.189	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00113	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0148	<0.00200	0.00486	<0.000228	<0.000162	0.0467	0.0121
	12/23/2020	0.0299	0.0358	0.0381	0.0266	0.156	0.183	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00101	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0135	<0.00200	0.00408	<0.000228	<0.000162	0.0406	0.0102
	12/30/2020	0.0200	0.0242	0.0185	0.0146	0.0592	0.0738	<0.00270	0.000550 J	0.000680 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000540 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00603	<0.00200	0.00170	<0.000228	<0.000162	0.0116	0.00533
	1/6/2021	0.0200	0.0169	0.0231	0.0169	0.118	0.135	<0.00270	0.000390 J	0.00117	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00105	0.000500 J	<0.000396	<0.000174	<0.000199	<0.000481	0.00815	<0.00200	0.00267	0.000800 J	<0.000162	0.0339	0.0103
	1/12/2021	0.0193	0.0185	0.0198	0.0144	0.0922	0.107	<0.00270	0.000690 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00756	<0.00200	0.00242	<0.000228	<0.000162	0.0259	0.00698
	1/20/2021	0.0229	0.0169	0.0190	0.0136	0.0829	0.0965	0.00394 J	0.000400 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000470 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00177	<0.000228	<0.000162	0.0202	0.00517
	1/27/2021	0.0298	0.0276	0.0282	0.0269	0.155	0.182	0.00504 J	0.00103	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0117	<0.00200	0.00343	<0.000228	<0.000162	0.0500	0.0129
	2/3/2021	0.0286	0.0392	0.0258	0.0236	0.111	0.135	<0.00270	<0.000286	0.000850 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000590 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00817	<0.00200	0.00240	<0.000228	<0.000162	0.0267	0.00674
	2/10/2021	0.0307	0.0201	0.0329	0.0210	0.159	0.180	<0.00575	0.000870 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000940 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0120	<0.00200	0.00331	<0.000228	<0.000162	0.0407	0.00994
	2/24/2021	0.0218	0.0122	0.0164	0.0111	0.0749	0.086	<0.00575	0.000370 J	0.000640 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000480 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0060	<0.00200	0.00175	<0.000228	<0.000162	0.0191	0.00496
	3/4/2021	0.0264	0.0232	0.0320	0.0212	0.142	0.163	<0.00575	0.000430 J	0.00131	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000930 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0115	<0.00200	0.00390	<0.000228	<0.000162	0.0403	0.0100
	3/10/2021	0.0269	0.0234	0.0271	0.0206	0.117	0.138	<0.00575	<0.000286	0.000970 J	<0.000195	<0.00100	<0.000259	NA	<0.000214	<0.000183	0.000720 J	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.00931	<0.00200	0.00281	<0.000228	<0.000162	0.0287	0.00720
	3/17/2021	0.0238	0.0237	0.0257	0.0190	0.113	0.132	<0.0500	<0.00100	0.00113	<0.00100	<0.00100	<0.000259	NA	<0.00100	<0.00100	<0.00100	<0.00500	<0.00500	<0.00500	<0.00100	<0.00500	0.00923	<0.0100	0.00305	<0.00100	<0.00100	0.0315	0.00821
	3/25/2021	0.0209	0.0281	0.0202	0.0165	0.0892	0.106	<0.0500	<0.00100	0.000799 J	0.00134	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.000610 J	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00725	<0.0100	0.00229	<0.00100	<0.00100	0.0224	<0.00100
	3/31/2021	0.0298	0.0107	0.0177	0.0203	0.124	0.144	<0.00270	<0.000286	0.00137	<0.000195	<0.000500	<0.00100	<0.0100	0.00151	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0133	<0.00200	0.00295	<0.000228	0.000631 J	0.0426	0.0107
	4/8/2021	0.0226	0.0217	0.0210	0.0175	0.0990	0.117	<0.00270	0.000640 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.00														

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

Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	1/6/2022	0.0360	0.00656	0.0309	0.0229	0.253	0.274	<0.00270	0.00192	0.00273	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00265	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00488	<0.000228	<0.000623	0.108	0.0273
	1/12/2022	0.0205	0.00174	0.00106	0.0200	0.0949	0.115	<0.00270	<0.000286	0.00132	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<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	<0.000214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0142	<0.00200	0.00403	<0.000228	<0.000623	0.0435	0.0115
	1/26/2022	0.0331	0.00488	0.0137	0.00718	0.0755	0.0827	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000314 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00555	<0.00200	0.00112	<0.000228	<0.000623	0.0145	0.00380
	2/2/2022	Unable to Sample due to Incident 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	<0.000286	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	<0.000286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000884 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0127	<0.00200	0.00392	<0.000228	<0.000623	0.0393	0.0103
	2/25/2022	0.0341	0.00559	0.0206	0.0111	0.134	0.145	<0.00270	<0.0000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000996 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0114	<0.00200	0.00295	<0.000228	<0.000623	0.0386	0.00997
	3/3/2022	0.0370	0.00673	0.0378	0.0160	0.225	0.244	<0.00270	<0.0000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00117	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0152	<0.00200	0.00456	<0.000228	<0.000623	0.0496	0.0126
	3/9/2022	0.0182	0.00790	0.0186	0.0131	0.0857	0.0988	<0.00270	<0.0000286	0.000910 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000683 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00211	<0.000228	<0.000623	0.0240	0.00659
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.0200	0.00793	0.0209	0.0133	0.0947	0.108	<0.00270	<0.0000286	0.000759 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000524 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00753	<0.00200	0.00212	<0.000228	<0.000623	0.0216	0.00583
	3/24/2022	0.0400	0.0151	0.0490	0.0321	0.252	0.284	<0.00270	0.00104	0.00192	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00135	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00487	<0.000228	<0.000623	0.0679	0.0170
	3/31/2022	0.0305	0.0309	0.0274	0.0311	0.267	0.311	<0.00270	0.00102	0.00142	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00138	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00896	<0.00200	0.00203	<0.000228	<0.000623	0.0551	0.0138
	4/6/2022	0.0303	0.0170	0.0140	0.0228	0.191	0.218	<0.00270	0.000939 J	0.00104	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00128	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00534	<0.00200	0.00110	<0.000228	<0.000623	0.0517	0.0136
	4/13/2022	0.0303	0.0271	0.0235	0.0218	0.135	0.157	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000812 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00770	<0.00200	0.00212	<0.000228	<0.000623	0.0368	0.00937
	4/20/2022	0.0246	0.0126	0.0157	0.0171	0.0994	0.117	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000513 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00439	<0.00200	0.000555 J	<0.000228	<0.000623	0.0224	0.00580
	4/28/2022	0.0384	0.0164	0.0617	0.0403	0.292	0.333	<0.00270	0.00162	0.00214	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00176	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0222	<0.00200	0.00675	<0.000228	<0.000623	0.0872	0.0220
	5/5/2022	0.0181	0.00219	0.0172	0.00988	0.110	0.120	<0.00270	0.000629 J	0.000796 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000733 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00608	<0.00200	0.00123	<0.000228	<0.000623	0.0276	0.00751
	5/10/2022	0.0197	0.00422	0.0184	0.0142	0.129	0.143	<0.00270	<0.000286	0.000957 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000953 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00681	<0.00200	0.00180	<0.000228	<0.000623	0.0367	0.00949
	5/19/2022	0.0329	0.00659	0.0505	0.0254	0.367	0.407	<0.00270	0.00159	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0196	<0.00200	0.00593	<0.000228	<0.000623	0.0645	0.0173
	5/26/2022	0.0238	0.00151	0.0208	0.00782	0.105	0.113	<0.00270	0.000780 J	0.00102	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000846 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00912	<0.00200	0.00268	<0.000228	<0.000623	0.0317	0.00846
	6/1/2022	0.0387	0.00639	0.0414	0.0212	0.230	0.253	<0.00270	<0.000286	0.00172	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00147	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0156	<0.00200	0.00395	<0.000228	<0.000623	0.0573	0.0153
	6/9/2022	0.0194	0.00241	0.0228	0.0102	0.118	0.128	<0.00270	<0.000286	0.00124	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00104	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0108	<0.00200	0.00304	<0.000228	<0.000623	0.0356	0.00926

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

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

NOTES:
VOCs - volatile organic compounds
mg/L - milligrams per Liter
NA - not analyzed
NE - not established
J - The target analyte was positively identified below the quantitation limit and above the detection limit.
Concentrations highlighted in yellow exceed the NMAC Human Health Standards



TABLE 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 CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)		
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
Levey Well	12/6/2019	<0.500	253	<0.500	0.594	0.199	61.5	405	65.0	5.27	83.7	1,680	1,260	<4.00	2.70	6.45
	12/13/2019	<0.500	315	<0.500	0.744	0.222	72.9	450	80.1	6.71	110	1,900	1,230	<4.00	2.00	7.02
	12/19/2019	0.414 J	311	0.381 J	0.539	<0.0293	62.9	411	72.2	5.61	101	1,640	1,140	<4.00	0.200	6.57
	12/26/2019	<0.500	257	<0.500	0.617	0.204	61.7	418	68.8	5.82	88.5	1,760	1,280	<4.00	1.30	6.44
	1/2/2020	<0.500	302	<0.500	0.331	<0.100	60.6	375	70.5	5.96	98.8	1,630	1,150	<4.00	2.40	6.83
	1/15/2020	<0.500	190	0.559	0.129	0.930	53.5	401	66.8	4.82	82.9	1,570	1,260	<4.00	0	6.35
	1/23/2020	<0.500	195	0.617	0.126	0.128	46.2	426	76.3	8.84	86.4	1,530	1,230	<4.00	1.60	6.21
	1/31/2020	<0.500	197	0.616	0.129	<0.100	48.5	446	79.1	7.43	89.5	1,440	1,230	<4.00	3.20	6.15
	2/6/2020	<0.500	316	<0.500	0.179	<0.100	64.2	430	76.0	7.60	101	1,100	1,180	<4.00	1.10	6.07
	2/13/2020	<2.50	293	0.623	0.178	<0.500	57.3	409	74.5	6.80	95.7	1,640	1,200	<4.00	0.300	6.04
	2/20/2020	<0.500	272	0.586	0.157	<0.100	49.6	421	71.4	6.38	91.4	1,690	1,220	<4.00	0.300	5.93
	2/28/2020	<0.500	307	<0.500	1.05	1.35	56.6	438	74.0	5.98	97.4	1,620	1,230	<4.00	0.400	6.12
	3/6/2020	<0.500	284	0.621	0.107	1.27	56.2	418	67.9	5.60	92.7	1,880	1,230	<4.00	0.800	6.26
	3/13/2020	<0.500	316	0.629	<0.100	<0.100	59.3	393	63.3	5.32	91.2	1,770	1,200	<4.00	4.30	6.23
	3/18/2020	0.533	332	0.642	0.128	<0.100	63.5	391	67.4	5.56	95.7	1,680	1,180	<4.00	3.80	6.44
	3/27/2020	0.533	324	0.728	<0.100	<0.100	57.6	418	70.3	5.91	105	1,610	1,180	<4.00	0.200	6.57
	4/3/2020	<0.500	304	0.807	0.110	<0.100	57.3	417	69.0	5.91	101	1,960	1,180	<4.00	0.200	6.37
	4/10/2020	0.575	351	0.612	0.172	<0.100	61.8	431	72.3	6.17	104	1,930	1,190	<4.00	0.600	6.73
	4/17/2020	0.590	353	0.691	0.165	<0.100	59.7	406	73.2	5.40	108	1,750	1,180	<4.00	1.70	6.51
	4/24/2020	0.595	370	0.723	0.152	<0.100	61.2	408	75.2	5.55	113	1,810	1,130	<4.00	0.600	6.32
	5/1/2020	0.576	376	0.686	0.140	<0.100	61.8	402	74.6	5.39	106	1,750	1,130	<4.00	1.90	6.37
	5/7/2020	0.517	365	0.675	0.163	<0.100	58.8	425	70.5	5.57	108	1,640	1,140	<4.00	0.00	6.55
	5/14/2020	0.571	409	0.585	0.160	<0.100	56.0	412	76.5	6.23	107	1,900	1,200	<4.00	3.70	6.34
	5/22/2020	0.531	319	0.561	1.550	<0.100	30.1	354	63.7	5.24	97.4	1,360	1,190	<4.00	6.10	6.54
	5/26/2020	0.549	357	0.688	0.153	<0.100	44.5	356	69.6	5.67	102	1,650	1,170	<4.00	6.30	6.42
	6/5/2020	0.640	417	0.535	0.139	<0.100	39.9	379	73.3	5.92	108	1,670	1,160	<4.00	5.90	6.30
	6/12/2020	0.602	359	0.697	0.145	<0.100	43.9	386	72.4	6.70	106	1,670	1,140	<4.00	2.40	6.22
	6/18/2020	0.576	431	<5.00	0.144	<0.100	39.5	418	78.8	6.23	115	1,800	1,180	<4.00	2.40	6.28
	6/23/2020	0.586	398	<5.00	0.136	<0.100	33.3	361	66.3	5.48	98.2	1,920	1,190	<4.00	8.40	6.23
	6/30/2020	0.695	431	<5.00	0.149	<0.100	37.9	437	78.6	6.70	113	1,830	1,170	<4.00	2.60	6.39
	7/9/2020	0.647	413	<5.00	0.147	0.215	40.5	421	78.5	6.58	114	1,790	1,170	<4.00	1.50	6.37
	7/16/2020	0.657	390	<5.00	0.128	<0.100	40.6	402	77.6	7.01	114	1,890	1,170	<4.00	1.90	6.34
	7/23/2020	0.621	396	<5.00	0.175	0.169	36.5	419	74.0	6.58	111	2,000	1,160	<4.00	1.10	6.22
	7/30/2020	0.669	390	0.625	0.181	<0.100	39.3	397	71.4	5.59	103	1,910	1,170	<4.00	3.70	6.18
	8/7/2020	0.631	387	0.526	0.186	1.75	36.1	404	79.5	6.73	111	1,810	1,150	<4.00	0.900	6.12
	8/13/2020	0.713	408	0.505	0.191	1.45	34.9	368	75.1	6.54	115	1,980	1,150	<4.00	5.00	6.26
	8/20/2020	0.690	449	<0.500	0.164	<0.100	38.7	389	69.0	5.99	113	2,000	1,090	<4.00	4.40	6.18
	8/27/2020	0.846	582	<0.500	0.158	1.68	49.4	446	82.6	7.17	161	2,570	973	<4.00	1.50	6.35
	9/2/2020	0.868	635	<0.500	0.159	<0.100	48.1	422	77.9	7.25	168	1,620	1,030	<4.00	3.40	6.30
	9/10/2020	0.714	499	<0.500	<0.100	1.61	41.9	387	79.4	6.53	133	1,980	1,090	<4.00	4.20	6.10
	9/17/2020	0.769	472	<0.500	0.272	1.06	40.8	467	73.4	6.45	119	1,930	1,110	<4.00	1.10	6.14
	9/25/2020	0.779	541	<0.500	0.150	<0.100	44.0	386	75.9	5.86	133	1,680	1,110	<4.00	6.70	6.17
	10/1/2020	0.721	466	<0.500	0.173	<0.100	41.4	398	75.5	6.25	124	1,940	1,110	<4.00	3.30	6.07
	10/9/2020	0.786	527	<0.500	0.161	<0.100	43.8	426	79.8	6.90	139	2,220	1,090	<4.00	1.90	6.21
	10/16/2020	0.595	460	0.511	<0.100	<2.00	45.7	376	72.5	5.90	122	2,020	1,080	<4.00	4.80	6.20
	11/24/2020	0.817	572	<0.500	0.124	2.07	37.5	438	79.6	6.56	141	2,200	1,100	<4.00	2.60	6.45
	12/4/2020	0.687	706	<0.500	0.142	3.27	30.9	405	75.8	7.09	143	2,000	1,050	<4.00	9.30	6.33
	12/11/2020	0.816	487	0.949	0.197	1.80	33.4	445	82.0	6.90	133	1,990	1,160	<4.00	0.200	6.20
	12/18/2020	0.763	497	<5.00	0.129	1.87	37.6	424	79.5	6.97	137	1,910	1,180	<4.00	2.70	6.39
	12/23/2020	0.613	477	<5.00	0.108	<0.100	38.3	416	78.2	7.82	129	1,800	1,290	<4.00	5.70	6.22
	12/30/2020	0.712	493	<0.500	<0.100	<0.100	40.1	448	80.0	6.21	139	2,120	1,340	<4.00	4.40	6.14
	1/6/2021	0.784	504	<0.500	0.155	2.61	23.0	400	79.8	6.14	135	2,210	1,340	<4.00	8.10	6.27
	1/12/2021	0.605	326	<0.500	0.137	1.05	<0.500	324	64.3	5.68	97.8	1,680	1,160	<4.00	7.00	6.57
	1/20/2021	0.796	486	<0.500	0.138	<0.100	7.68	397	73.0	6.00	127	2,170	1,200	<4.00	5.70	6.24
	1/27/2021	0.510	264	0.905	0.137	1.16	23.1	296	55.1	4.75	83.1	1,350	875	<4.00	1.70	6.38
	2/3/2021	0.501	275	0.842	0.122	1.02	20.5	329	59.0	4.76	89.4	1,370	940	<4.00	0.00	6.37
	2/10/2021	0.615	561	<0.500	0.147	0.308	24.9	416	77.9	7.03	156	1,980	1,170	<4.00	4.50	6.31
	2/24/2021	0.695	576	<0.500	0.163	2.6	31.4	450	81.3	7.94	164	2,260	1,190	<4.00	2.50	6.22
	3/4/2021	0.789	585	<0.500	0.121	0.215	54.1	425	77.8	6.41	151	2,090	1,050	<4.00	3.00	6.34
	3/10/2021	0.756	540	<0.500	0.147	<0.100	45.5	417	76.3	5.54	139	1,940	1,160	<4.00	5.10	6.29
	3/17/2021	0.813	519	1.21	0.169	<0.100	33.8	436	71.3	6.10	127	1,910	1,200	<4.00	4.70	5.97
	3/25/2021	<10.0	529	<10.0	<2.00	1.99 J	20.2	435	78.0	7.14	136	2,320	1,250	<4.00	-10.80	6.6
	3/31/2021	0.785	499	0.358 J	0.130	<0.0293	16.5	416	74.3	6.73	132	1,650	1,150	<4.00	-9.18	6.4
	4/8/2021	<0.500	254	0.869	<0.100	0.121	23.3	271	46.7	5.00	74.5	1,120	785	<4.00	-9.60	6.5
	4/15/2021	0.545	253	0.939	<0.100	<0.100	34.1	283	53.5	4.66	82.8	998	793	<4.00	-7.22	6.5
	4/21/2021	0.460 J	253	0.729	0.125	<0.0293	9.23	278	52.4	4.83	81.4	1,210	869	<4.00	-10.1	6.4
	4/28/2021	0.841	497	0.196 J	0.133	<0.0293	21.2	416	75.8	6.88	133	2,000	1,290	<4.00	-12.5	6.3
	5/5/2021	0.780	475	0.362 J	0.151	<0.0293	13.6	428	80.1	7.43	123	2,120	1,230	<4.00	-9.6	

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	6/2/2021	0.712	488	0.303 J	0.128	<0.0293	23.7	447	82.8	7.43	139	2,140	1,120	<4.00	-4.83	6.3
	6/10/2021	0.415 J	247	1.10	0.124	1.38	22.2	273	54.9	4.90	84.8	1,270	669	<4.00	-2.53	6.5
	6/16/2021	0.405 J	227	0.946	0.125	<0.0293	11.5	267	56.0	4.64	84.4	1,500	723	<4.00	-3.70	6.7
	6/22/2021	0.405 J	230	1.00	0.117	1.67	28.9	298	53.1	4.74	80.7	1,230	657	<4.00	0.795	6.7
	6/30/2021	0.398 J	237	1.07	0.140	0.205	23.8	258	51.9	4.32	74.6	1,200	676	<4.00	-5.560	6.9
	7/1/2021	Levey Well Now Running Full Time														
	7/7/2021	0.469 J	305	0.705	0.128	<0.0293	41.3	337	67.2	5.46	96.3	1,780	764	<4.00	-0.751	6.6
	7/14/2021	0.446 J	297	0.753	0.151	0.167	41.6	323	61.9	4.56	87.0	1,200	785	<4.00	-3.73	6.4
	7/20/2021	0.180 J	290	0.223 J	0.0457 J	<0.0293	38.2	317	65.9	5.31	96.1	1,620	854	<4.00	-5.11	6.4
	7/27/2021	0.437 J	281	0.491 J	0.126	1.42	41.3	338	66.9	5.14	95.9	1,240	790	<4.00	-0.522	6.2
	8/5/2021	0.400 J	275	0.565	0.158	<0.0293	43.3	334	68.8	5.00	90.9	1,610	714	<4.00	2.12	6.6
	8/11/2021	0.446 J	261	0.512	0.154	1.81	43.2	298	64.8	4.96	89.8	1,470	764	<4.00	-3.46	6.4
	8/19/2021	0.583	380	0.357 J	0.177	0.694	39.1	336	68.2	6.69	111	2,030	769	<4.00	-3.85	6.6
	8/25/2021	0.483 J	249	0.680	0.125	1.13	41.4	305	59.6	4.65	83.9	1,050	698	<4.00	-0.532	6.6
	9/2/2021	0.418 J	233	0.688	0.110	0.147	20.1	287	52.2	3.98	75.2	1,140	588	<4.00	2.27	7.0
	9/8/2021	0.357 J	257	0.442 J	0.0997 J	1.20	43.4	300	61.8	4.83	87.3	1,360	703	<4.00	-1.15	6.6
	9/14/2021	0.372 J	250	0.511	0.118	1.11	42.3	285	58.7	4.81	81.7	988	730	<4.00	-4.44	6.4
	9/21/2021	0.546	227	0.951	0.224	<0.0293	37.4	313	68.2	5.30	97.5	1,080	610	<4.00	7.72	6.6
	9/29/2021	0.535	248	0.542	0.186	0.164	41.9	302	59.9	4.60	85.4	1,410	765	<4.00	-2.94	6.6
	10/7/2021	0.454 J	235	0.582	1.10	<0.0293	40.5	323	65.5	4.79	88.3	1,310	765	<4.00	0.449	6.6
	10/13/2021	0.459 J	238	0.608	0.198	1.10	40.9	252	52.7	3.97	75.6	1,030	765	<4.00	-10.6	6.7
	10/21/2021	0.470 J	227	0.557	0.143	<0.0293	36.9	238	51.0	3.54	72.5	1,250	722	<4.00	-10.2	6.5
	10/27/2021	0.444 J	238	0.469 J	0.193	0.0910 J	42.5	330	67.2	5.31	94.2	1,290	706	<4.00	3.95	6.7
	11/5/2021	0.367 J	231	1.45	0.220	<0.0293	41.7	328	63.6	5.06	90.7	1,050	657	<4.00	5.76	6.9
	11/11/2021	0.379 J	229	0.594	0.238	<0.0293	36.9	221	48.1	3.36	71.5	1,140	571	<4.00	-5.92	7.0
	11/18/2021	0.560	247	0.397 J	0.176	<0.0293	44.3	276	50.8	4.29	76.4	1,350	698	<4.00	-5.71	6.6
	11/24/2021	0.455 J	232	0.646	0.203	0.718	41.9	253	52.5	4.07	76.6	1,240	546	<4.00	-0.200	6.6
	12/1/2021	0.497 J	233	0.652	0.144	<0.0293	42.0	284	55.9	4.31	82.4	1,040	644	<4.00	-0.133	6.9
	12/8/2021	0.516	230	0.620	0.187	<0.0293	42.5	261	55.8	4.20	82.9	1,200	633	<4.00	-1.56	6.5
	12/16/2021	0.490 J	228	0.528	0.251	<0.0293	42.1	282	55.3	4.13	81.9	1,280	649	<4.00	-0.883	6.4
	12/22/2021	0.480 J	230	0.294 J	0.223	<0.0293	43.3	304	58.5	4.66	85.8	1,270	619	<4.00	3.67	6.4
	12/29/2021	0.476 J	225	0.588	0.224	<0.0293	43.8	300	57.5	4.69	84.9	1,220	657	<4.00	1.62	6.6
	1/6/2022	0.386 J	226	0.500	0.182	<0.0293	42.7	278	52.9	4.11	79.0	1,650	711	<4.00	-4.09	6.4
	1/12/2022	0.438 J	223	0.561	0.178	<0.0293	42.8	254	49.2	3.60	71.9	1,090	633	<4.00	-4.90	6.1
	1/19/2022	0.446 J	223	0.523	0.178	<0.0293	43.6	288	57.2	4.34	80.1	1,780	688	<4.00	-1.41	6.3
	1/26/2022	0.440 J	220	0.580	0.181	0.0834 J	41.7	286	56.4	4.50	85.1	1,140	706	<4.00	-1.64	6.4
	2/2/2022	Unable to Sample due to Incident 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	52.5							



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

Sample Designation	Date	(mg/L)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)		
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	10/4/2022	0.515	200	0.740	0.396	<0.0293	45.0	242	50.2	4.07	78.2	706	456	<4.00	4.21	6.6
	10/14/2022	0.495 J	212	0.655	0.464	<0.0293	49.1	208	42.7	3.22	68.5	1,250	719	<4.00	-16.5	6.3
	10/19/2022	1.08 J	206	0.612 J	0.359	<0.0293	46.0	250	51.3	4.05	81.9	1,340	676	<4.00	-5.64	6.6
	10/27/2022	0.412 J	201	0.631	0.0757 J	0.690	40.1	322	64.8	5.47	95.2	977	740	<4.00	3.53	6.4
	11/2/2022	0.473 J	216	0.509	0.165	<0.0293	46.1	247	49.2	4.26	76.4	1,230	681	<4.00	-6.86	6.3
	11/9/2022	0.461 J	218	0.683	0.0934 J	<0.0293	46.5	238	44.2	3.36	73.3	1,450	708	<4.00	-11.0	6.5
	11/16/2022	0.480 J	219	0.493 J	0.154	<0.0293	47.5	250	50.0	4.20	78.0	1,340	611	<4.00	-3.43	6.8
	11/30/2022	0.487 J	218	0.710	0.0811 J	<0.0293	44.9	208	43.2	3.12	70.9	1,270	618	<4.00	-11.7	6.7
	12/9/2022	0.335 J	206	0.685	0.153	0.108	40.5	244	49.3	3.61	62.9	1,170	626	<4.00	-5.72	6.5
	12/15/2022	0.311 J	211	0.628	0.137	<0.0293	40.5	254	48.3	4.05	76.3	956	440	<4.00	6.29	6.3
	12/21/2022	0.392 J	214	0.732	0.144	<0.0293	44.5	258	49.1	4.69	80.4	1,130	656	<4.00	-3.79	6.5
	12/29/2022	0.515	209	0.568	10.4	2.66	43.5	242	45.9	3.93	74.9	1,060	670	<4.00	-7.08	6.6
	1/4/2023	Electrical Failure, Unable to Sample.														
	1/13/2023	0.562	292	0.202 J	0.227	<0.0293	35.2	393	71.7	6.96	125	1,800	949	<4.00	1.05	6.4
	1/19/2023	0.658	304	0.191 J	0.109	<0.0293	53.7	450	84.0	7.71	133	1,730	1,140	<4.00	0.441	6.3
	1/25/2023	0.525	298	0.207 J	0.0992 J	<0.0293	46.7	416	72.6	6.84	119	1,760	1,110	<4.00	-2.84	6.7
	2/2/2023	0.609	309	<0.100	0.256	<0.0293	43.5	366	69.4	6.39	113	1,680	1,120	<4.00	-8.22	6.4
	2/8/2023	0.514	224	0.443 J	0.108	<0.0293	44.6	228	46.7	4.18	78.0	1,230	704	<4.00	-11.0	6.7
	2/17/2023	0.403 J	231	0.632	0.0839 J	<0.0293	50.5	234	46.5	3.96	74.4	1,190	651	<4.00	-9.14	6.5
	2/22/2023	0.442 J	214	0.464 J	0.0849 J	<0.0293	46.8	246	50.4	4.19	78.6	1,160	732	<4.00	-8.94	6.3
	3/3/2023	0.457 J	327	0.148 J	0.0946 J	<0.0293	60.9	376	67.6	6.40	117	1,500	921	<4.00	-2.26	6.3
	3/8/2023	0.488 J	222	0.425 J	0.106	<0.0293	49.2	250	48.8	3.95	72.6	1,380	696	<4.00	-8.10	6.3
	3/15/2023	0.453 J	220	0.314 J	0.0651 J	<0.0293	49.2	224	43.1	3.66	70.0	1,030	691	<4.00	-12.3	6.3
	3/23/2023	0.454 J	221	0.896	0.0721 J	<0.0293	50.7	248	51.3	4.11	91.2	1,190	689	<4.00	-0.0255	6.5
	3/29/2023	0.438 J	217	0.504	0.0578 J	0.157	46.3	254	50.8	4.44	79.9	1,130	684	<4.00	-5.81	6.3
	4/6/2023	<0.0711	219	0.206 J	0.0769 J	<0.0293	47.4	249	49.4	4.08	79.7	1,080	680	<4.00	-6.66	6.7
	4/14/2023	<0.0711	219	0.229 J	0.0834 J	<0.0293	49.4	224	45.2	3.78	71.8	1,200	608	<4.00	-8.07	6.6
	4/26/2023	0.475 J	215	0.471 J	0.129	0.395	47.7	264	52.9	4.25	80.2	1,240	651	<4.00	-2.67	6.4
	5/2/2023	<0.0711	225	0.331 J	0.321	<0.0293	54.1	302	56.0	4.60	86.7	1,290	688	<4.00	-0.0776	6.4
	5/11/2023	0.400 J	216	0.400 J	10.4	2.66	44.9	236	51.7	4.41	82.0	1,680	637	<4.00	-7.60	6.5
	5/15/2023	0.326 J	214	0.789	0.243	0.793	47.8	202	41.3	3.26	67.1	1,320	547	<4.00	-9.15	6.5
	5/25/2023	0.348 J	217	0.617	0.0603 J	0.691	46.8	259	48.8	4.21	77.4	1,310	697	<4.00	-6.47	6.5
	5/30/2023	0.353 J	231	0.154 J	0.351	0.664	45.5	187	37.8	2.87	66.2	979	400	<4.00	-6.63	7.1



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																
	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															6.37	
	1/6/2021	NA	325															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			



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



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																
	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																
	1/6/2021	NA	124																
	1/12/2021	NA	141	NA										1,350	<4.00	NA	6.20		
	1/20/2021	NA	133	NA										1,360	<4.00	NA	6.12		
	1/27/2021	NA	140	NA										1,360	<4.00	NA	6.24		
	2/3/2021	NA	178	NA										1,390	<4.00	NA	6.17		
	2/10/2021	NA	133	NA										1,380	<4.00	NA	6.19		
	2/24/2021	NA	146	NA										1,370	<4.00	NA	6.17		
	3/4/2021	NA	166	NA										1,380	<4.00	NA	6.07		
	3/10/2021	NA	175	NA										1,390	<4.00	NA	6.14		
	3/17/2021	NA	163	NA										1,400	<4.00	NA	5.87		
	3/25/2021	NA	161	0.183 J	0.835	0.425	119	NA					1,420	<4.00	NA	6.5			
	3/31/2021	NA	102	0.299 J	0.714	1.13	99.9	NA					1,330	<4.00	NA	6.4			
	4/8/2021	NA	157	0.223 J	0.784	0.549	122	NA					1,430	<4.00	NA	6.2			
	4/15/2021	NA	136	0.255 J	0.711	0.683	115	NA					1,380	<4.00	NA	6.1			
	4/21/2021	NA	114	0.157 J	0.650	0.856	101	NA					1,340	<4.00	NA	6.1			
	4/28/2021	NA	155	0.178 J	0.692	0.511	118	NA					1,380	<4.00	NA	6.2			
	5/5/2021	NA	122	0.198 J	0.704	0.609	105	NA					1,350	<4.00	NA	6.3			
	5/13/2021	NA	104	0.199 J	0.686	1.02	98.3	NA					1,320	<4.00	NA	6.3			
	5/19/2021	NA	142	0.171 J	0.633	0.435	120	NA					1,370	<4.00	NA	6.2			
	5/27/2021	NA	147	0.206 J	0.689	0.889	120	NA					1,260	<4.00	NA	6.5			
	6/2/2021	NA	119	0.168 J	0.647	0.549	103	NA					1,250	<4.00	NA	6.2			
	6/10/2021	NA	151	0.252 J	0.714	2.77	123	NA					1,260	<4.00	NA	6.1			
	6/16/2021	NA	118	0.205 J	0.613	1.36	104	NA					1,208	<4.00	NA	6.5			
	6/22/2021	NA	122	0.171 J	0.593	0.969	105	NA					1,260	<4.00	NA	6.5			
	6/30/2021	NA	111	0.417 J	0.633	1.37	102	NA					1,230	<4.00	NA	6.4			
	7/1/2021		Levey Well Now Running Full Time																
	7/7/2021	NA	110	0.257 J	0.543	0.713	98.2	NA					1,120	<4.00	NA	6.4			
	7/14/2021	NA	187	0.233 J	0.752	0.797	124	NA					1,350	<4.00	NA	6.4			
	7/20/2021	NA	123	0.132 J	0.460	0.659	107	NA					1,280	<4.00	NA	6.3			
	7/27/2021	NA	113	0.134 J	0.607	0.516 J	100	NA					1,250	<4.00	NA	6.4			
	8/5/2021	NA	120	0.189 J	0.660	0.552	103	NA					1,200	<4.00	NA	6.5			
	8/11/2021	NA	115	0.181 J	0.624	3.02	101	NA					1,300	<4.00	NA	6.3			
	8/19/2021	NA	122	0.104 J	0.630	1.73	104	NA					1,290	<4.00	NA	6.4			
	8/25/2021	NA	122	0.191 J	0.639	0.603	103	NA					1,270	<4.00	NA	6.5			
	9/2/2021	NA	110	<0.100	0.536	0.595	98.1	NA					1,320	<4.00	NA	6.4			
	9/8/2021	NA	105	<0.100	0.540	0.590	97.3	NA					1,280	<4.00	NA	6.4			
	9/14/2021	NA	124	<0.100	0.542	0.386	107	NA					1,270	<4.00	NA	6.4			
	9/21/2021	NA	90.5	0.426 J	0.638	1.04	89.1	NA					1,250	<4.00	NA	6.3			
	9/29/2021	NA	133	0.245 J	0.631	0.982	117	NA					1,300	<4.00	NA	6.4			
	10/7/2021	NA	108	0.201 J	0.581	0.564	96.6	NA					1,280	<4.00	NA	6.4			
	10/13/2021	NA	178	0.140 J	0.734	0.507	131	NA					1,320	<4.00	NA	6.5			
	10/21/2021	NA	102	0.133 J	0.635	0.787	93.3	NA					1,270	<4.00	NA	6.5			
	11/5/2021	NA	141	0.363 J	<0.0391	0.454	108	NA					1,250	<4.00	NA	6.6			
	11/11/2021	NA	115	<0.100	0.677	0.374	97.6	NA					1,240	<4.00	NA	6.5			
	11/18/2021	NA	103	<0.100	0.600	1.28	98.1	NA					1,140	<4.00	NA	6.6			
	11/24/2021	NA	163	<0.500	0.680	0.539	127	NA					1,500	<4.00	NA	6.3			
	12/1/2021	NA	120	0.148 J	0.604	0.511	103	NA					1,240	<4.00	NA	6.9			
	12/8/2021	NA	188	<0.100	0.759	0.684	123	NA					1,250	<4.00	NA	6.3			
	12/16/2021	NA	134	<0.100	0.529	<0.0293	113	NA					1,180	<4.00	NA	6.3			
	12/22/2021	NA	163	<0.100	0.670	0.462	122	NA					1,280	<4.00	NA	6.4			
	12/29/2021	NA	210	<0.100	1.02	0.415	115	NA					1,280	<4.00	NA	6.3			
	1/6/2022	NA	106	<0.100	0.559	0.746	97.5	NA					1,300	<4.00	NA	6.4			
	1/12/2022	NA	73.9	0.288 J	0.506	1.47	92.2	NA					1,150	<4.00	NA	6.2			
	1/19/2022	NA	120	<0.100	0.591	0.757	104	NA					1,290	<4.00	NA	6.1			
	1/26/2022	NA	120	<0.100	0.592	0.608	100	NA					1,270	<4.00	NA	6.1			
	2/2/2022		Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																
	2/8/2022	NA	148	0.156 J	0.683	1.03	125	NA					1,290	<4.00	NA	6.1			
	2/16/2022	NA	186	0.409 J	0.809	0.338	113	NA					1,320	<4.00	NA	6.2			
	2/25/2022	NA	133	0.704	0.536	0.647	154	NA					1,280	<4.00	NA	6.3			
	3/3/2022	NA	126	<0.100	0.776	0.992	112	NA					1,360	<4.00	NA	6.1			
	3/9/2022	NA	167	<0.100	0.789	2.12	133	NA					1,330	<4.00	NA	6.2			
	3/14/2022		Booster Pump for Levey Well Repaired and Back on Running Full Time.																
	3/16/2022	NA	165	<0.100	0.890	1.47	135	NA					1,350	<4.00	NA	6.2			
	3/24/2022	NA	140	<0.100	<0.0391	0.389	120	NA					1,320	<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	3/31/2022	NA	150	<0.100	<0.0391	1.65	106			NA			1,340	<4.00	NA	6.3	
	4/6/2022	NA	130	0.175 J	0.619	1.60	111			NA			1,360	<4.00	NA	6.2	
	4/13/2022	NA	135	0.271 J	0.589	1.67	108			NA			1,380	<4.00	NA	6.5	
	4/20/2022	NA	198	0.174 J	0.966	0.722	121			NA			1,330	<4.00	NA	6.4	
	4/28/2022	NA	156	0.172 J	0.711	0.434	118			NA			1,380	<4.00	NA	6.4	
	5/5/2022	NA	116	0.229 J	0.586	11.5	112			NA			1,330	<4.00	NA	6.3	
	5/10/2022	NA	134	0.230 J	0.548	1.83	120			NA			1,320	<4.00	NA	6.3	
	5/19/2022	NA	133	0.116 J	<0.0391	0.373	118			NA			1,380	<4.00	NA	6.2	
	5/26/2022	NA	107	0.196 J	0.392	1.14	104			NA			1,320	<4.00	NA	6.0	
	6/1/2022	NA	130	0.107 J	0.481	1.47	116			NA			1,340	<4.00	NA	6.3	
	6/9/2022	NA	103	<0.100	0.330	0.236	103			NA			1,320	<4.00	NA	6.2	
	6/17/2022	NA	99.0	0.213 J	0.395	0.702	102			NA			1,290	<4.00	NA	6.4	
	6/23/2022	NA	109	<0.100	0.494	5.21	107			NA			1,270	<4.00	NA	6.3	
	6/29/2022	NA	82.6	0.111 J	0.351	0.827	89.7			NA			1,330	<4.00	NA	6.2	
	7/7/2022	NA	107	0.141 J	0.399	0.440	98.3			NA			1,300	<4.00	NA	6.4	
	7/13/2022	NA	95.3	0.262 J	0.306	1.23	100			NA			1,280	<4.00	NA	6.2	
	7/20/2022	NA	134	<0.100	0.485	1.46	122			NA			1,360	<4.00	NA	6.3	
	7/27/2022	NA	101	<0.100	0.403	3.86	105			NA			1,340	<4.00	NA	6.4	
	8/4/2022	NA	107	0.112 J	0.451	0.477	99.9			NA			1,250	<4.00	NA	6.2	
	8/10/2022	NA	89.4	0.189 J	0.189	0.210	97.2			NA			1,260	<4.00	NA	6.3	
	8/18/2022	NA	99.1	0.122 J	0.333	0.303	100			NA			1,280	<4.00	NA	6.3	
	8/24/2022	NA	110	0.172 J	0.282	0.427	103			NA			1,290	<4.00	NA	6.3	
	8/31/2022	NA	94.8	<0.100	0.175	0.238	94.4			NA			1,280	<4.00	NA	6.3	
	9/15/2022	NA	94.4	0.538	0.232	2.31	98.7			NA			1,320	<4.00	NA	6.3	
	9/22/2022	NA	94.4	0.260 J	0.650	0.481	105			NA			1,320	<4.00	NA	6.3	
	9/28/2022	NA	91.2	0.498 J	0.261	<0.0293	92.5			NA			1,280	<4.00	NA	6.3	
	10/4/2022	NA	88.9	0.143 J	0.497	0.189	97.0			NA			1,320	<4.00	NA	6.2	
	10/14/2022	NA	82.6	0.101 J	<0.0391	0.0760 J	84.6			NA			1,320	<4.00	NA	6.2	
	10/19/2022	NA	51.2	<0.100	0.101	<0.0293	48.5			NA			1,290	<4.00	NA	6.5	
	10/27/2022	NA	124	0.165 J	0.319	0.871	104			NA			1,340	<4.00	NA	6.3	
	11/2/2022	NA	91.1	0.148 J	0.221	0.947	92.9			NA			1,330	<4.00	NA	6.2	
	11/9/2022	NA	97.8	0.161 J	0.273	0.366	101			NA			1,430	<4.00	NA	6.4	
	11/16/2022	NA	86.0	0.180 J	0.206	0.579	91.4			NA			1,300	<4.00	NA	6.6	
	11/30/2022	NA	90.4	0.133 J	0.264	0.168	91.1			NA			1,300	<4.00	NA	6.4	
	12/9/2022	NA	78.0	0.158 J	0.217	0.785	82.5			NA			1,290	<4.00	NA	6.4	
	12/15/2022	NA	100	0.120 J	0.331	1.64	91.2			NA			1,140	<4.00	NA	6.2	
	12/21/2022	NA	94.8	0.212 J	0.252	1.16	99.5			NA			1,270	<4.00	NA	6.3	
	12/29/2022	NA	124	0.114 J	0.527	0.338	95.6			NA			1,250	<4.00	NA	6.5	
	1/4/2023	NA	92.6	0.126 J	0.318	1.23	88.2			NA			1,140	<4.00	NA	6.4	
	1/13/2023	NA	72.6	0.112 J	0.227	0.381	81.1			NA			1,210	<4.00	NA	6.4	
	1/19/2023	NA	96.5	0.135 J	0.185	0.320	96.7			NA			1,270	<4.00	NA	6.2	
	1/25/2023	NA	83.2	0.133 J	0.128	0.416	87.9			NA			1,110	<4.00	NA	6.5	
	2/2/2023	NA	80.8	<0.100	0.273	0.334	84.7			NA			1,180	<4.00	NA	6.2	
	2/8/2023	NA	89.2	<0.100	0.180	0.392	92.3			NA			1,300	<4.00	NA	6.3	
	2/17/2023	NA	89.9	0.226 J	0.194	0.178	96.2			NA			1,300	<4.00	NA	6.4	
	2/22/2023	NA	98.9	0.113 J	0.606	0.162	70.9			NA			1,310	<4.00	NA	6.1	
	3/3/2023	NA	130	<0.100	0.450	0.204	95.4			NA			1,200	<4.00	NA	6.2	
	3/8/2023	NA	86.9	<0.100	0.139	0.239	94.5			NA			1,230	<4.00	NA	6.3	
	3/15/2023	NA	89.8	<0.100	0.190	0.389	95.7			NA			1,190	<4.00	NA	6.2	
	3/23/2023	NA	74.9	0.138 J	0.107	0.208	88.5			NA			1,250	<4.00	NA	6.3	
	3/29/2023	NA	81.8	<0.100	0.150	0.975	90.9			NA			1,250	<4.00	NA	6.2	
	4/6/2023	NA	83.9	<0.100	0.112	<0.0293	91.2			NA			1,300	<4.00	NA	6.5	
	4/14/2023	NA	154	0.533	0.577	<0.0293	99.0			NA			1,380	<4.00	NA	6.8	
	4/26/2023	NA	78.7	<0.100	0.194	1.49	89.3			NA			1,320	<4.00	NA	6.4	
	5/2/2023	NA	78.4	<0.100	0.508	0.464	94.5			NA			1,310	<4.00	NA	6.3	
	5/11/2023	NA	90.3	0.159 J	1.62	0.427	92.1			NA			1,280	<4.00	NA	6.4	
	5/15/2023	NA	77.7	<0.100	0.886	0.245	86.7			NA			1,210	<4.00	NA	6.3	
	5/25/2023	NA	74.3	0.113 J	0.166	1.47	81.9			NA			1,330	<4.00	NA	6.3	
	5/30/2023	NA	77.2	<0.100	0.551	0.721	92.1			NA			1,340	<4.00	NA	6.3	

NOTES:

SU - standard units

mg/L - milligrams per Liter

NE - not established

NA - not analyzed

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

Concentrations highlighted in yellow exceed the NMAC Human Health Standards



TABLE 3 GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY South Hobbs G/SA Unit Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417002									
Sample Designation	Date	(mg/L)						°C	
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH ORO	Total TPH	Temperature	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE	
MW-1	5/26/2020	<0.495	163	<0.943	1.48	<0.910	1.48	22.9	
	6/30/2020	<5.00	648	<2.34	<2.34	<2.34	<2.34	21.9	
	8/20/2020	<5.00	596	2.35	3.18	<2.26	5.53	23.7	
	11/24/2020	<0.495	756	<0.907	<0.838	<0.838	<0.8380	19.1	
	12/18/2020	<0.495	432	<0.909	<0.840	<0.840	<0.840	15.8	
	12/23/2020	<0.495	553	<0.895	1.81 J	<0.827	1.81 J	15.5	
	12/30/2020	<0.495	1,170	<0.917	<0.847	<0.847	<0.847	13.1	
	1/6/2021	<0.495	585	<0.897	<0.829	<0.829	<0.829	12.7	
	1/12/2021	<0.495	731	<0.891	<0.823	<0.823	<0.823	14.6	
	1/20/2021	0.600 J	667	<0.889	<0.821	<0.821	<0.821	17.6	
	1/27/2021	0.800 J	668	<0.909	<0.840	<0.840	<0.840	18.0	
	2/3/2021	<0.495	699	<0.907	<0.838	<0.838	<0.838	20.6	
	2/10/2021	1.20 J	423	1.66 J	<0.828	<0.828	1.66 J	14.1	
	2/24/2021	0.600 J	448	<0.884	<0.817	<0.817	<0.817	18.0	
	3/4/2021	<0.495	515	3.04	1.03 J	<0.846	4.07	18.8	
	3/10/2021	1.20 J	499	<0.878	<0.811	<0.811	<0.811	18.6	
	3/17/2021	<0.495	378	<0.886	<0.819	<0.819	<0.819	19.1	
	3/25/2021	<0.495	333	17.2	1.00 J	<0.867	18.2	20.2	
	3/31/2021	<0.495	526	<0.893	<0.825	<0.825	<0.825	18.4	
	4/8/2021	<0.495	364	2.57 J	1.55 J	<0.867	4.12 J	18.9	
	4/15/2021	<0.495	418	<0.887	<0.887	1.72 J	1.72 J	20.5	
	4/21/2021	<0.495	415	<0.898	2.05 J	<0.867	2.05 J	18.8	
	4/28/2021	<0.495	689	<0.890	1.19 J	<0.859	1.19 J	18.9	
	5/5/2021	<0.495	647	<0.890	<0.890	<0.859	<0.890	18.8	
	5/13/2021	<0.495	259	<0.893	<0.893	<0.862	<0.893	19.0	
	5/19/2021	<0.495	679	<0.893	<0.893	<0.862	<0.893	21.5	
	5/27/2021	<0.495	973	<0.923	<0.923	<0.891	<0.923	20.6	
	6/2/2021	<0.495	619	<0.918	<0.918	<0.886	<0.918	18.1	
	6/10/2021	<0.495	385	<0.915	<0.915	<0.883	<0.915	22.0	
	6/16/2021	<0.495	323	<0.926	<0.926	<0.894	<0.926	18.2	
	6/22/2021	<0.495	250	<0.938	<0.938	<0.905	<0.938	22.1	
	6/30/2021	<0.495	324	<0.923	<0.923	<0.891	<0.923	21.0	
	7/1/2021	Levey Well Now Running Full Time							
	7/7/2021	<0.495	241	<0.901	<0.901	<0.869	<0.901	18.4	
	7/14/2021	<0.495	295	<0.991	<0.957	<0.991	<0.991	19.0	
	7/20/2021	<0.495	321	<0.938	<0.938	<0.905	<0.938	19.8	
	7/27/2021	<0.495	321	<0.906	<0.906	<0.875	<0.906	22.0	
	8/5/2021	<0.495	196	<0.950	<0.950	<0.917	<0.950	21.9	
	8/11/2021	<0.495	369	<0.932	<0.932	<0.900	<0.932	19.9	
	8/19/2021	<0.495	457	<0.950	<0.950	<0.917	<0.950	20.8	
	8/25/2021	<0.495	477	<0.918	<0.918	<0.886	<0.918	20.0	
	9/2/2021	<0.495	416	<0.935	<0.935	<0.902	<0.935	20.6	
	9/8/2021	<0.495	280	<0.953	<0.953	<0.920	<0.953	21.4	
	9/14/2021	<0.495	289	<0.932	0.978 J	<0.900	0.978 J	19.3	
	9/21/2021	1.00 J	105	<0.918	<0.918	<0.886	<0.918	18.0	
	9/29/2021	<0.495	127	<0.998	<0.998	<0.963	<0.998	18.7	
	10/7/2021	<0.495	143	<0.923	<0.923	<0.891	<0.923	18.0	
	10/13/2021	<0.495	8.85	<0.950	<0.950	<0.917	<0.950	20.7	
	10/21/2021	<0.495	434	<0.918	<0.918	<0.886	<0.918	19.9	
	11/5/2021	<0.495	114	<1.03	<1.03	<0.993	<1.03	22.9	
	11/11/2021	<0.495	563	<0.923	<0.923	<0.891	<0.923	19.3	
	11/18/2021	<0.495	24.9	1.05 J	<0.969	<0.935	1.05 J	19.0	
	11/24/2021	<5.00	159	<4.70	<4.70	<4.70	<4.70	19.7	
	12/1/2021	<0.495	39.0	<0.935	<0.935	<0.902	<0.935	19.4	
	12/8/2021	<0.495	122	<0.929	<0.929	<0.897	<0.929	18.1	
	12/16/2021	<0.495	69.3	<0.962	<0.962	<0.929	<0.962	18.0	
	12/22/2021	<0.495	49.5	1.34 J	<0.941	<0.908	1.34 J	21.5	
	12/29/2021	<0.495	50.2	<0.935	<0.935	<0.902	<0.935	18.1	
	1/6/2022	<0.495	67.0	<0.932	<0.932	<0.900	<0.932	18.0	
	1/12/2022	<0.495	130	0.960 J	1.06 J	<0.900	2.02 J	21.7	
1/19/2022	<0.495	56.4	<0.912	<0.912	<0.880	<0.912	18.0		
1/26/2022	<0.495	44.7	<0.898	<0.898	<0.867	<0.898	18.8		
2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.								
2/8/2022	<0.495	95.7	<0.895	<0.895	<0.864	<0.895	20.8		
2/16/2022	<0.495	61.0	<0.877	<0.877	<0.846	<0.877	18.7		
2/25/2022	<0.495	54.2	<0.923	<0.923	<0.891	<0.923	20.0		
3/3/2022	<0.495	90.5	<0.935	<0.935	<0.902	<0.935	18.2		
3/9/2022	<0.495	40.7	<0.874	<0.874	<0.874	<0.874	18.1		
3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.								
3/16/2022	<0.495	67.6	<0.959	<0.959	<0.959	<0.959	18.1		
3/24/2022	<0.495	37.5	<0.901	<0.901	<0.869	<0.901	18.9		
3/31/2022	<0.495	43.7	<0.926	<0.926	<0.894	<0.926	19.0		
4/6/2022	<0.495	41.6	<0.926	<0.926	<0.894	<0.926	18.1		
4/13/2022	<0.495	13.0	<0.918	<0.918	<0.886	<0.918	19.0		
4/20/2022	<0.495	72.4	<0.904	<0.904	<0.872	<0.904	18.3		
4/28/2022	<0.495	18.9	<0.890	<0.890	<0.859	<0.890	19.9		
5/5/2022	<0.495	31.8	<0.912	<0.912	<0.880	<0.912	19.5		
5/10/2022	1.20 J	31.5	<0.985	<0.985	<0.950	<0.985	16.7		
5/19/2022	0.600 J	41.5	<0.926	<0.926	<0.894	<0.926	20.3		
5/26/2022	1.00 J	32.2	<0.920	<0.920	<0.888	<0.920	18.0		
6/1/2022	0.800 J	19.0	<0.926	<0.926	<0.894	<0.926	20.5		
6/9/2022	0.600 J	24.6	<0.962	<0.962	<0.929	<0.962	20.3		
6/17/2022	<0.495	21.1	<0.918	<0.918	<0.886	<0.918	18.3		
6/23/2022	0.800 J	32.5	<0.932	<0.932	<0.900	<0.932	18.0		
6/29/2022	1.00 J	33.2	0.954 J	<0.923	<0.891	0.954 J	15.8		



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
	7/7/2022	0.600 J	22.2	<0.947	<0.947	<0.914	<0.947	23.1
	7/13/2022	<0.495	31.9	<0.950	<0.950	<0.917	<0.950	20.6
	7/20/2022	<0.495	31.4	<0.959	<0.959	<0.926	<0.959	20.0
	7/27/2022	<0.495	10.6	<0.904	<0.904	<0.872	<0.904	17.6
	8/4/2022	0.800 J	31.9	<0.906	<0.906	<0.875	<0.906	19.2
	8/10/2022	1.00 J	35.0	<0.929	<0.929	<0.897	<0.929	19.8
	8/18/2022	<0.495	52.4	<1.04	<1.04	<1.00	<1.04	20.7
	8/24/2022	1.40 J	34.4	<4.78	<4.78	<4.78	<4.78	18.2
	8/31/2022	1.20 J	22.0	<0.932	<0.932	<0.900	<0.932	19.9
	9/15/2022	0.800 J	55.4	<0.988	<0.988	<0.954	<0.988	18.6
	9/22/2022	<0.495	28.0	<0.944	<0.944	<0.911	<0.944	21.0
	9/28/2022	1.20 J	28.5	<0.956	<0.956	<0.923	<0.956	17.9
	10/4/2022	0.800 J	34.2	<0.895	<0.895	<0.864	<0.895	17.8
	10/14/2022	1.20 J	26.6	<0.935	<0.935	<0.902	<0.935	18.7
	10/19/2022	<0.495	22.4	<0.981	<0.981	<0.947	<0.981	18.4
	10/27/2022	<0.495	22.0	<1.00	<1.00	<0.968	<1.00	25.0
	11/2/2022	<0.495	31.7	<0.972	<0.972	<0.938	<0.972	25.0
	11/9/2022	<0.495	33.0	<0.972	<0.972	<0.938	<0.972	21.4
	11/16/2022	<0.495	28.2	<1.00	<1.00	<0.970	<1.00	18.0
	11/30/2022	<0.495	30.0	<0.915	<0.915	<0.883	<0.915	18.5
	12/9/2022	<0.495	19.5	<1.00	<1.00	<0.970	<1.00	17.1
	12/15/2022	<0.495	43.9	<0.918	<0.918	<0.886	<0.918	15.7
	12/21/2022	<0.495	37.8	<0.890	<0.890	<0.859	<0.890	15.8
	12/29/2022	<0.495	64.9	<0.938	<0.938	<0.905	<0.938	16.7
	1/4/2023	<0.495	28.1	<0.923	<0.923	<0.891	<0.923	15.9
	1/13/2023	<0.495	45.0	<0.935	<0.935	<0.902	<0.935	13.8
	1/19/2023	0.800 J	53.9	<0.918	<0.918	<0.886	<0.918	16.0
	1/25/2023	<0.495	28.9	<1.00	<1.00	<0.966	<1.00	19.5
	2/2/2023	<0.495	52.2	<0.978	<0.978	<0.944	<0.978	18.6
	2/8/2023	<0.495	45.3	<0.969	<0.969	<0.935	<0.969	16.9
	2/17/2023	<0.495	27.2	<0.938	<0.938	<0.905	<0.938	20.0
	2/22/2023	<0.495	66.3	<0.906	<0.906	<0.875	<0.906	18.7
	3/3/2023	<0.495	39.0	<0.893	<0.893	<0.862	<0.893	17.5
	3/8/2023	<0.495	79.3	<1.01	<1.01	<0.976	<1.01	18.6
	3/15/2023	<0.495	65.4	1.34 J	<1.01	<0.976	1.34 J	14.1
	3/23/2023	<0.495	63.2	<0.938	<0.938	<0.905	<0.938	18.2
	3/29/2023	<0.495	75.1	<0.947	<0.947	<0.914	<0.947	15.9
	4/6/2023	<0.495	55.8	<0.920	<0.920	<0.888	<0.920	15.8
	4/14/2023	<0.495	44.1	<0.909	<0.909	<0.877	<0.909	18.8
	4/26/2023	<0.495	67.9	<0.981	<0.981	<0.947	<0.981	19.8
	5/2/2023	<0.495	86.9	<0.935	<0.935	<0.902	<0.935	18.2
	5/11/2023	<0.495	73.0	<0.912	<0.912	<0.880	<0.912	18.1
	5/15/2023	<0.495	116	<0.920	<0.920	<0.888	<0.920	16.4
	5/25/2023	<0.495	137	<0.935	<0.935	<0.902	<0.935	17.6
	5/30/2023	<0.495	693	<0.944	<0.944	<0.911	<0.944	18.4



TABLE 3 GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY South Hobbs G/SA Unit Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417002									
Sample Designation	Date	(mg/L)						°C	
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH ORO	Total TPH	Temperature	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE	
MW-2	5/26/2020	<0.495	923	2.10	1.07 J	<0.900	6.16	23.1	
	6/30/2020	<5.00	1,290	<2.32	<2.32	<2.32	<2.32	22.1	
	8/20/2020	<5.00	1,150	2.75	3.29	<2.26	6.02	23.0	
	11/24/2020	<0.495	1,300	1.73 J	2.17 J	<0.835	3.900	19.1	
	12/18/2020	0.600 J	958	1.34 J	0.915 J	<0.824	2.26 J	15.1	
	12/23/2020	<0.495	1,090	1.61 J	1.12 J	<0.837	2.73	15.6	
	12/30/2020	<0.495	1,090	<0.893	<0.825	<0.825	<0.825	12.1	
	1/6/2021	<0.495	1,240	1.99 J	<0.824	<0.824	1.99 J	13.1	
	1/12/2021	11.2	1,450	1.64 J	<0.833	<0.833	1.64 J	13.9	
	1/20/2021	9.60	1,390	<0.907	<0.838	<0.838	<0.838	18.2	
	1/27/2021	15.0	1,600	1.31 J	<0.834	<0.834	1.31 J	13.4	
	2/3/2021	<0.495	1,030	0.955 J	1.15 J	<0.813	2.11 J	20.9	
	2/10/2021	<0.495	915	2.08	<0.746	<0.746	2.08	11.5	
	2/24/2021	<0.495	793	1.01 J	<0.832	<0.832	1.01 J	19.4	
	3/4/2021	<0.495	1,030	1.74 J	<0.819	<0.819	1.74 J	18.2	
	3/10/2021	<0.495	1,010	<0.893	<0.825	<0.825	<0.825	18.5	
	3/17/2021	<0.495	970	2.33	<0.835	<0.835	2.33	19.5	
	3/25/2021	<0.495	653	1.50 J	1.16 J	<0.857	2.66 J	20.2	
	3/31/2021	<0.495	1,110	<0.941	<0.941	<0.908	<0.941	18.3	
	4/8/2021	<0.495	1,010	2.30 J	1.01 J	<0.875	3.31 J	18.9	
	4/15/2021	<0.495	2,200	2.49 J	0.999 J	1.70 J	5.19	20.1	
	4/21/2021	<0.495	1,230	1.01 J	0.913 J	<0.856	1.92 J	18.9	
	4/28/2021	<0.495	1,100	2.54 J	1.19 J	<0.872	3.73 J	19.0	
	5/5/2021	<0.495	1,350	2.09 J	<0.890	<0.859	2.09 J	18.8	
	5/13/2021	<0.495	1,320	1.18 J	<0.906	<0.875	1.18 J	19.6	
	5/19/2021	<0.495	1,730	1.46 J	<0.901	<0.869	1.46 J	19.8	
	5/27/2021	<0.495	798	<0.920	<0.920	<0.888	<0.920	20.8	
	6/2/2021	<0.495	1,580	2.01 J	<0.895	<0.864	2.01 J	18.1	
	6/10/2021	<0.495	2,010	1.46 J	<0.882	<0.851	1.46 J	22.0	
	6/16/2021	<0.495	810	0.963 J	<0.826	<0.797	0.963 J	18.0	
	6/22/2021	<0.495	795	1.18 J	<0.947	<0.914	1.18 J	22.2	
	6/30/2021	<0.495	975	1.21 J	<0.893	<0.862	1.21 J	20.3	
	7/1/2021	Levey Well Now Running Full Time							
	7/7/2021	<0.495	889	1.62 J	<0.906	<0.875	1.62 J	18.3	
	7/14/2021	<0.495	1,080	<0.965	<0.965	<0.932	<0.965	19.3	
	7/20/2021	<0.495	1,170	1.16 J	<0.898	<0.867	1.16 J	19.8	
	7/27/2021	<0.495	950	1.03 J	<0.906	<0.875	1.03 J	22.3	
	8/5/2021	<0.495	778	<0.909	<0.909	<0.877	<0.909	22.1	
	8/11/2021	<0.495	1,040	1.46 J	<0.887	<0.856	1.46 J	19.7	
	8/19/2021	<0.495	2,010	1.93 J	<0.959	<0.926	1.93 J	20.7	
	8/25/2021	<0.495	1,400	1.01 J	<0.932	<0.900	1.01 J	19.2	
	9/2/2021	<0.495	1,830	3.03 J	2.11 J	<0.920	5.14	21.4	
	9/8/2021	<0.495	1,570	1.70 J	<0.932	<0.900	1.70 J	20.5	
	9/14/2021	<0.495	1,240	1.93 J	1.01 J	<0.917	2.94 J	19.4	
	9/21/2021	<0.495	1,260	1.33 J	<0.941	<0.908	1.33 J	18.0	
	9/29/2021	<0.495	1,040	1.60 J	<1.19	<1.15	1.60 J	18.5	
	10/7/2021	<0.495	1,020	1.45 J	<0.988	<0.954	1.45 J	18.0	
	10/13/2021	<0.495	834	1.56 J	<0.935	<0.902	1.56 J	20.6	
	10/21/2021	<0.495	2,420	1.64 J	<0.918	<0.886	1.64 J	19.8	
	11/5/2021	<0.495	628	1.39 J	<0.965	<0.932	1.39 J	22.8	
	11/11/2021	<0.495	4,500	2.27 J	<0.985	<0.950	2.27 J	18.5	
	11/18/2021	<0.495	574	2.56 J	<0.923	<0.891	2.56 J	19.5	
	11/24/2021	<5.00	1,500	2.34 J	<4.59	<4.59	2.34 J	19.1	
	12/1/2021	<0.495	313	1.69 J	<0.912	<0.880	1.69 J	19.2	
	12/8/2021	<0.495	1,260	1.86 J	<0.932	<0.900	1.86 J	18.9	
	12/16/2021	<0.495	957	1.15 J	<0.947	<0.914	1.15 J	18.0	
	12/22/2021	<0.495	1,020	1.95 J	<0.944	<0.911	1.95 J	21.6	
	12/29/2021	<0.495	1,250	1.15 J	<0.935	<0.902	1.15 J	18.0	
	1/6/2022	<0.495	1,030	1.31 J	<0.915	<0.883	1.31 J	18.2	
	1/12/2022	<0.495	1,450	3.63 J	1.34 J	<1.00	4.97 J	22.0	
1/19/2022	<0.495	1,420	2.83 J	<0.915	<0.883	2.83 J	18.2		
1/26/2022	<0.495	2,020	<0.923	<0.923	<0.891	<0.923	18.8		
2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.								
2/8/2022	<0.495	2,050	1.31 J	<0.909	<0.877	1.31 J	20.7		
2/16/2022	<0.495	1,670	0.974 J	<0.864	<0.834	0.974 J	18.3		
2/25/2022	<0.495	1,280	1.43 J	<0.965	<0.932	1.43 J	19.9		
3/3/2022	<0.495	2,160	1.86 J	<0.909	<0.877	1.86 J	18.1		
3/9/2022	<0.495	1,680	1.77 J	<0.947	<0.914	1.77 J	18.4		
3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.								
3/16/2022	<0.495	1,700	2.22 J	<0.915	<0.883	2.22 J	18.1		
3/24/2022	<0.495	1,330	1.29 J	<0.909	<0.877	1.29 J	19.1		
3/31/2022	<0.495	1,340	1.28 J	<0.938	<0.905	1.28 J	19.0		
4/6/2022	<0.495	1,720	1.00 J	<0.938	<0.905	1.00 J	18.1		
4/13/2022	<0.495	874	0.915 J	<0.906	<0.875	0.915 J	19.0		
4/20/2022	<0.495	1,060	1.06 J	<0.901	<0.869	1.06 J	18.6		
4/28/2022	<0.495	1,100	1.76 J	<0.915	<0.883	1.76 J	19.8		
5/5/2022	0.600 J	1,330	1.40 J	<0.920	<0.888	1.40 J	19.2		
5/10/2022	<0.495	1,320	1.63 J	<0.965	<0.932	1.63 J	16.8		
5/19/2022	<0.495	1,740	1.80 J	<0.915	<0.883	1.80 J	20.5		
5/26/2022	<0.495	2,650	1.02 J	<0.950	<0.917	1.02 J	18.1		
6/1/2022	<0.495	1,340	1.43 J	<0.909	<0.877	1.43 J	20.5		
6/9/2022	<0.495	1,080	1.23 J	<0.938	<0.905	1.23 J	19.8		
6/17/2022	<0.495	894	1.49 J	<0.895	<0.864	1.49 J	17.8		
6/23/2022	<0.495	1,270	1.25 J	<0.920	<0.888	1.25 J	18.0		
6/29/2022	<0.495	1,680	<0.935	<0.935	<0.902	<0.935	15.9		



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	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

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	<16.4	<66.0	205	<17.0	<27.2	<11.8	50.5	<2.18	3.46	520	550	<1.41	577	195	175,000
	5/27/2021	1245	380	0.664	<0.776	<0.622	1.57	<1.03	1.14	<0.810	<0.793	6,130	3.68	7.07	1.51	2.64	9.98	157	<0.983	13.5	13.5	115	263	<0.819	<3.30	976	301	<1.36	149	86.3	<1.09	<1.07	15.4	4.37	<0.704	12.1	3.70	17,900
	6/2/2021	1220	1,280	<12.8	<15.5	<12.4	<8.26	<20.6	5,480	<16.2	<15.9	317	78.5	241	<22.5	<19.8	1,500	6,840	162	<13.9	<102	188	<102	<16.4	<66.0	125	<17.0	<27.2	<11.8	47.1	<21.8	<21.4	555	356	<14.1	542	174	179,000
	6/10/2021	1150	3,470	<12.8	<15.5	106	<8.26	<20.6	2,260	<16.2	<15.9	722	21.6	169	<22.5	<19.8	507	3,020	48.1	<13.9	<102	295	<102	<16.4	<66.0	234	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	89.3	73.1	<14.1	127	49.4	95,800
	6/16/2021	1217	2,160	<0.639	<0.776	43.0	<0.413	<1.03	806	<0.810	<0.793	609	17.9	145	<1.12	<0.989	308	1,670	32.2	<0.694	35.6	251	<5.12	<0.819	<3.30	201	<0.851	<1.36	<0.590	29.3	<1.09	<1.07	85.9	58.9	<0.704	88.9	34.4	32,400
	6/22/2021	1240	1,190	<6.39	<7.76	<6.22	<4.13	<10.3	2,440	<8.10	<7.93	347	9.49	78.0	<11.2	<9.89																						

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	1/3/2022	0756	<297	<63.9	<77.6	<62.2	<41.3	<103	108,000	<81.0	<79.3	1,200	<86.7	<98.2	<112	<98.9	234,000	606,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	6,610	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	4,020,000
		0759	Initiate Vacuum Recovery Event																																			
		0823	<59.4	<12.8	<15.5	<12.4	407	<20.6	3,960	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	12,800	28,200	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	62.9	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	177,000
		0904	<14.9	<3.19	<3.88	<3.11	<2.07	<5.15	2,240	<4.05	<3.96	<11.8	<4.34	<4.91	<5.62	<4.95	6,130	17,800	<4.92	<3.47	<25.6	<18.4	<25.6	<4.09	<16.5	19.3	<4.25	<6.79	<2.95	<9.42	<5.44	<5.36	8.25	5.64	<3.52	<8.67	<4.34	101,000
		0920	Vacuum Recovery Event Terminated																																			
	1031	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	4,580	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	5,690	15,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	87.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	22.7	<19.6	<14.1	<34.7	<17.3	188,000	
	1/6/2022	0000	<297	<63.9	<77.6	<62.2	<41.3	<103	10,600	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	20,500	130,000	<98.3	110	<511	<369	<512	<81.9	<330	4,230	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	508,000
	1/12/2022	1352	31,400	<12.8	<15.5	<12.4	<8.26	<20.6	164,000	<16.2	<15.9	<47.1	115	491	<22.5	<19.8	342,000	1,680,000	98.8	<13.9	<102	5,570	<102	<16.4	85.9	81,900	<17.0	<27.2	<11.8	263	<21.8	<21.4	400	433	<14.1	341	156	6,820,000
	1/17/2022	0852	14,900	<639	<776	<622	<413	<1,030	119,000	<810	<793	<2,360	<867	<982	<1,120	<989	160,000	1,440,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	25,800	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	6,110,000
		0853	Initiate Vacuum Recovery Event																																			
		0919	227	<0.639	<0.776	<0.622	<0.413	<1.03	3,650	<0.810	<0.793	19.8	2.15	1.70	1.52	1.84	6,260	19,100	1.22	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	202	<0.851	<1.36	<0.590	8.32	<1.09	<1.07	2.84	2.87	<0.704	5.20	2.15	132,000
		1004	90.3	<0.639	<0.776	<0.622	1.30	<1.03	747	<0.810	<0.793	56.2	2.58	4.13	1.40	2.60	1,610	4,300	2.46	<0.694	<5.11	16.4	<5.12	<0.819	<3.30	114	<0.851	2.69	<0.590	15.6	<1.09	<1.07	11.5	8.44	<0.704	7.50	3.13	31,600
		1021	Vacuum Recovery Event Terminated																																			
	1134	466	<0.639	<0.776	<0.622	1.64	<1.03	2,400	<0.810	<0.793	16.8	5.42	9.67	1.38	2.14	4,620	10,800	5.26	<0.694	<5.11	54.3	<5.12	<0.819	3.42	494	<0.851	27.5	<0.590	23.8	<1.09	<1.07	20.8	18.7	<0.704	17.7	7.46	95,400	
	1/19/2022	1208	454	<31.9	<38.8	<31.1	<20.7	<51.5	11,300	<40.5	<39.6	149	<43.4	94.2	<56.2	<49.5	28,800	171,000	<49.2	<34.7	<256	<184	<256	966	<165	3,740	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	81.0	221	<35.2	<86.7	<43.4	508,000
	1/26/2022	1251	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	28,900	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	22,900	313,000	<22.5	<13.9	<102	<73.7	<102	<16.4	<66.0	248	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	1,180,000
	2/2/2022	0921	4,040	5,940	<155	<124	<82.6	<206	229,000	<162	<159	<471	195	<196	<225	<198	217,000	8,710,000	<197	<139	<1020	1,360	<1,020	<164	<660	10,800	<170	<272	<118	1,220	<218	<214	<196	<196	<141	481	<173	3,620,000
		0922	Initiate Vacuum Recovery Event																																			
		0950	337	415	<15.5	<12.4	<8.26	<20.6	16,700	<16.2	<15.9	<47.1	147	<19.6	<22.5	<19.8	36,200	114,000	<19.7	<13.9	<102	231	<102	<16.4	<66.0	88.2	<17.0	<27.2	<11.8	313	<21.8	<21.4	27.0	<19.6	<14.1	370	108	409,000
		1030	56.8	29.9	<0.776	<0.622	<0.413	<1.03	2,280	<0.810	<0.793	10.5	25.2	<0.982	<1.12	2.47	5,440	9,380	2.05	<0.694	<5.11	34.5	<5.12	<0.819	<3.30	30.2	<0.851	<1.36	<0.590	46.3	<1.09	<1.07	9.18	6.58	<0.704	62.9	17.6	71,500
		1047	Vacuum Recovery Event Terminated																																			
	1158	80.8	29.7	<0.776	<0.622	<0.413	<1.03	2,750	<0.810	<0.793	4.13	19.1	<0.982	<1.12	2.58	5,850	8,670	1.82	<0.694	<5.11	36.9	<5.12	<0.819	<3.30	43.0	<0.851	<1.36	<0.590	38.8	<1.09	<1.07	7.80	5.35	<0.704	46.8	13.0	59,500	
	2/8/2022	1200	88.6	<0.639	<0.776	<0.622	<0.413	<1.03	1,310	<0.810	<0.793	<2.36	27.2	<0.982	<1.12	<0.989	2,640	13,700	14.5	<0.694	<5.11	15.5	<5.12	<0.819	3.64	76.2	<0.851	3.38	<0.590	12.3	<1.09	<1.07	43.8	46.5	<0.704	91.9	39.4	83,000
	2/16/2022	1224	215	<12.8	<15.5	<12.4	<8.26	<20.6	37,500	<16.2	<15.9	<47.1	<17.3	22.1	<22.5	<19.8	7,280	62,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	156	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	23.1	19.6	<14.1	38.4	<17.3	272,000
	2/23/2022	1021	1,950	<0.639	<0.776	<0.622	<0.413	<1.03	30,900	<0.810	<0.793	120	3.00	<0.982	<1.12	<0.989	5,360	176,000	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	73.8	<1.09	<1.07	1.84	1.47	<0.704	3.42	1.12	261,000
		1022	Initiate Vacuum Recovery Event																																			
		1043	104	101	<0.776	<0.622	1.44	<1.03	3,280	<0.810	<0.793	62.4	4.60	1.30	1.64	2.42	1,040	2,500	<0.983	<0.694	<5.11	34.2	<5.12	<0.819	<3.30	14.2	<0.851	<1.36	<0.590	57.6	<1.09	<1.07	3.47	3.29	<0.704	6.89	1.96	30,000
		1118	<29.7	25.9	<7.76	<6.22	<4.13	<10.3	737	<8.10	<7.93	42.2	<8.67	<9.82	<11.2	<9.89	290	610	<9.83	<6.94	<5.11	<36.9	<5.12	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	20.3	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	8,510
		1134	Vacuum Recovery Event Terminated																																			
	1241	<2.97	<0.639	<0.776	<0.622	1.40	<1.03	1,380	<0.810	<0.793	<2.36	<0.867	<0.982	1.58	1.76	272	1,290	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	7.61	<1.09	<1.07	<0.982	<0.982	<0.704	<1.73	<0.867	13,200	
	2/25/2022	1145	250	<0.639	<0.776	21.2	0.413	<1.03	12,400	<0.810	<0.793	4.68	2.41	4.13	<1.12	<0.989	3,740	26,100	2.23	<0.694	<5.11	46.9	<5.12	<0.819	3.50	25.8	<0.851	<1.36	<0.590	9.12	<1.09	<1.07	7.85	6.23	<0.704	8.15	2.49	107,000
	2/28/2022	1405	<149	<31.9	<38.8	<31.1	<20.7	<51.5	520	<40.5	<39.6	837	<43.4	<49.1	<56.2	<49.5	220	3,390	<49.2	47.6	<256	<184	<256	766	<165	8,480	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	<41,300
		1406	Initiate Vacuum Recovery Event																																			
		1510	<2.97	1.79	<0.776	<0.622	<0.413	<1.03	305	<0.810	<0.793	7.45	2.05	2.40	<1.12	2.13	182	511	1.12	<0.694	<5.11	10.6	<5.12	<0.819	<3.30	25.6	<0.851	<1.36	<0.590	3.74	<4.66	<1.07	4.96	4.91	<0.704	3.20	1.44	6,440
		1428	<149	<31.9	<38.8	<31.1	<20.7	<51.5	654																													

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001																																							
Sample Designation	Date	Time	(ug/m3)																																				
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction	
Levey Well	5/5/2022	1454	<1.190	<256	<311	<249	<165	<412	30,500	<324	<317	<943	<347	<393	<450	<396	47,000	673,000	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	8,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	1,430,000	
	5/9/2022	0958	<1.190	<256	<311	<249	<165	<412	49,200	<324	<317	2,660	<347	<393	<450	<396	66,300	850,000	<393	<278	<2,040	3,480	<2,050	<328	<1,320	26,100	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	2,380,000	
		1000	Initiate Vacuum Recovery Event																																				
		1020	333	<0.639	<0.776	1.34	1.81	<1.03	995	<0.810	<0.793	42.4	4.07	17.1	<1.12	1.20	2,530	8,780	<0.983	<0.694	<5.11	203	<5.12	<0.819	5.09	76.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	12.9	20.8	<0.704	7.02	5.94	54,100	
		1057	90.8	<0.639	<0.776	<0.622	2.85	<1.03	159	<0.810	<0.793	13.3	<0.867	1.08	1.31	1.81	385	1,040	<0.983	<0.694	<5.11	33.6	<5.12	<0.819	<3.30	13.7	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	1.54	2.56	<0.704	<1.73	1.03	8,220	
		1105	Vacuum Recovery Event Terminated																																				
	5/19/2022	1218	130	1.41	6.83	31.0	15.5	<1.03	3,090	<0.810	<0.793	32.2	3.73	7.02	<1.12	<0.989	6,260	4,830	1.60	<0.694	<5.11	193	<5.12	<0.819	<3.30	403	<0.851	<1.36	<0.590	6.37	<1.09	<1.07	8.59	15.2	<0.704	5.64	5.03	124,000	
		1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	104,000	<64.8	<63.4	1,070	<69.4	<78.5	<89.9	<79.1	183,000	1,340,000	<78.7	105	<409	<295	<409	<65.5	<264	4,130	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	4,750,000	
	5/23/2022	1015	12,100	<51.1	<62.1	<49.8	<33.0	<82.5	558,000	<96.2	<63.4	<189	<69.4	633	<89.9	<79.1	912,000	8,140,000	<78.7	<55.6	<409	14,100	<409	<65.5	<264	7,740	<68.1	<109	<47.2	<151	<87.0	<85.7	376	854	<56.3	<139	<69.4	27,600,000	
		1017	Initiate Vacuum Recovery Event																																				
		1100	<238	<51.1	<62.1	<49.8	<33.0	<82.5	13,400	<64.8	<63.4	549	<69.4	158	<89.9	<79.1	70,800	263,000	<78.7	<55.6	<409	1,090	<409	<65.5	<264	7,450	<68.1	<109	<47.2	<151	<87.0	<85.7	86.9	215	<56.3	<139	<69.4	702,000	
		1200	927	<12.8	<15.5	<12.4	<10.6	<20.6	6,410	<16.2	<15.9	196	<17.3	185	<22.5	<19.8	15,200	50,400	<19.7	<13.9	<102	590	<102	<16.4	<66.0	263	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	121	271	<14.1	<34.7	<17.3	450,000	
		1215	Vacuum Recovery Event Terminated																																				
	5/26/2022	1355	4,350	<51.1	<62.1	<49.8	88.6	<82.5	16,300	<64.8	<63.4	562	<69.4	146	<89.9	<79.1	47,000	154,000	<78.7	<55.6	<409	1,580	<409	<65.5	<264	7,520	<68.1	<109	<47.2	<151	<87.0	<85.7	85.9	205	<56.3	<139	<64.4	785,000	
		1250	49,400	<1,280	<1,550	<1,240	<826	<2,060	196,000	<1,620	<1,590	12,900	<1,730	<1,960	<2,250	<1,980	336,000	28,000,000	<1,970	<1,390	<10,200	8,230	<10,200	<1,640	<6,600	161,000	<1,700	<2,720	<1,180	<3,770	<2,180	2,330	<1,960	<1,960	<1,410	<3,470	<1,730	8,260,000	
	6/1/2022	1405	8,290	<256	<311	<249	<165	<412	444,000	<324	<317	1,420	<347	<393	<450	<396	634,000	4,580,000	<393	<278	<2,040	6,100	<2,050	<328	<1,320	14,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	22,600,000	
	6/8/2022	1033	<23,800	<5.100	<6,210	<4,980	<3,300	<8,250	231,000	<6.480	<6,340	28,800	<6,940	<7,850	<8,990	<7,910	470,000	3,700,000	<7,870	<5,560	<40,900	<29,500	<40,900	18,600	<26,400	531,000	<6,810	<10,900	<4,720	<15,100	<8,700	<8,570	<7,850	<7,850	<5,630	<13,900	<6,940	15,900,000	
		1035	Initiate Vacuum Recovery Event																																				
		1058	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	4,340	<16.2	<15.9	60.9	30.8	56.4	<22.5	<19.8	13,300	32,900	<19.7	<13.9	<102	97.0	<102	<16.4	<66.0	166	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	70.7	135	<14.1	37.9	30.9	220,000	
		1138	<2.97	2.17	<0.776	9.65	1.80	<1.03	1,390	<0.810	<0.793	31.7	11.4	28.8	1.31	2.37	4,620	906	3.85	<0.694	<5.11	53.4	<5.12	<0.819	4.45	72.5	<0.851	1.89	<0.590	13.0	<1.09	3.89	36.2	60.4	<0.704	16.3	12.5	98,700	
		1153	Vacuum Recovery Event Terminated																																				
	6/20/2022	1300	<59.4	<12.8	17.5	30.3	45.4	<20.6	14,300	<16.2	<15.9	83.9	24.4	34.8	<22.5	<19.8	45,000	135,000	<19.7	<13.9	<102	985	<102	<16.4	<66.0	804	<17.0	<27.2	<11.8	40.7	<21.8	<21.4	43.2	83.9	<14.1	35.3	27.8	1,020,000	
		1333	<238	<51.1	<62.1	53.2	<33.0	<82.5	30,900	<64.8	<63.4	1,250	<69.4	<78.5	<89.9	<79.1	76,100	279,000	<78.7	87.5	<409	1,540	<409	<65.5	<264	12,500	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	223	<56.3	<139	79.3	1,220,000	
		1315	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	5,960	<16.2	<15.9	790	<17.3	<19.6	<22.5	<19.8	7,930	108,000	<19.7	85.1	<102	563	<102	520	<66.0	11,700	<17.0	46.0	<11.8	64.8	<21.8	<21.4	<19.6	26.7	<14.1	<34.7	<17.3	271,000	
		1015	<238	<51.1	<62.1	<49.8	<33.0	<82.5	189,000	<64.8	<63.4	<189	<69.4	242	<89.9	<79.1	319,000	3,240,000	<78.7	<55.6	<409	7,960	<409	<65.5	<264	12,700	<68.1	<109	<47.2	<151	<87.0	<85.7	124	314	<56.3	157	105	10,600,000	
		1040	Initiate Vacuum Recovery Event																																				
		1148	137	<12.8	<15.5	<12.4	<8.26	<20.6	1,390	<16.2	<15.9	<47.1	<17.3	57.4	<22.5	<19.8	3,870	14,200	<19.7	<13.9	<102	130	<102	<16.4	<66.0	112	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	39.3	78.0	<14.1	<34.7	<17.3	92,900	
		1256	95.5	<0.639	<0.776	<0.622	<0.413	<1.03	475	<0.810	<0.793	19.0	<0.867	15.5	<1.12	2.19	1,060	2,440	<0.983	<0.694	<5.11	64.9	<5.12	<0.819	<3.30	47.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	23.1	36.5	<0.704	5.68	5.46	35,100	
		1257	Vacuum Recovery Event Terminated																																				
		6/23/2022	1403	197	<0.639	<0.776	<0.622	<0.413	<1.03	1,050	<0.810	<0.793	18.6	<0.867	7.21	<1.12	<0.989	2,070	15,700	<0.983	<0.694	<5.11	102	<5.12	<0.819	<3.30	113	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	8.69	17.0	<0.704	3.90	3.65	88,000
			1305	14,000	<639	<776	<622	<413	<1,030	48,600	<810	<793	3,260	<867	<982	<1,120	<989	107,000	702,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	48,700	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	2,210,000
	1255		27,300	<51.1	<62.1	161	<33.0	<82.5	339,000	<64.8	<63.4	1,690	<69.4	314	<89.9	<79.1	450,000	3,320,000	<78.7	<55.6	<409	19,000	<409	<65.5	<264	13,600	<68.1	<109	<47.2	<151	<87.0	<85.7	149	453	<56.3	<139	<69.4	19,600,000	
	7/7/2022		1340	15,500	<1,190	<311	<249	<165	<412	166,000	<324	<317	3,190	<347	<393	<450	<396	303,000	2,470,000	<393	<278	<2,040	12,200	<2,050	<328	<1,320	14,500	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	6,650,000
	7/13/2022		1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	<55.1	<64.8	<63.4	<189	<69.4	258	<89.9	<79.1	781,000	6,030,000	<78.7	<55.6	<409	28,100	<409	<65.5	<264	6,640	<68.1	<109	<47.2	<151	<87.0	<85.7	266	623	<56.3	<139	251	24,500,000
	7/18/2022		1135	22,000	<256	<311	<249	<165	<412	995,000	<324	<317	<943	<347	479	<450	<396	1,020,000	12,300,000	<393	<278	<2,040	19,200	<2,050	<328	<1,320	13,900	<340	<543	<236	<753	<435	<429	<393	667	<282	<696		

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

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



APPENDIX C

Laboratory Data Sheets and Chain-of-Custody Documentation



Environment Testing

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- 7
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- 12
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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 5/8/2023 4:18:39 PM

JOB DESCRIPTION

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

JOB NUMBER

880-27869-1

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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5/8/2023 4:18:39 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: 880-27869-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-27869-1
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
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.

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Definitions/Glossary

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

Job ID: 880-27869-1
SDG: Hobbs NM

Glossary (Continued)

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

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

Case Narrative

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

Job ID: 880-27869-1
SDG: Hobbs NM

Job ID: 880-27869-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-27869-1**

Receipt

The sample was received on 5/2/2023 3:58 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-101625 recovered above the upper control limit for Bromomethane (23.20). 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 860-101625/2).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (860-48188-B-10), (860-48188-B-10 MS) and (860-48188-B-10 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-101625 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS/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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-101661 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-101661 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 300_ORGFMS: The method blank for analytical batch 860-101662 contained Nitrate as N above the method detection limit (MDL); therefore, re-extraction and/or re-analysis of samples was not performed. The data have been qualified and reported.

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

Metals

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

General Chemistry

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

Client Sample Results

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

Job ID: 880-27869-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-27869-1

Date Collected: 05/02/23 11:20

Matrix: Water

Date Received: 05/02/23 15:58

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00230		0.00100	0.000533 mg/L			05/03/23 23:01	1
Bromobenzene	<0.000665 U		0.00100	0.000665 mg/L			05/03/23 23:01	1
Bromochloromethane	<0.000657 U		0.00100	0.000657 mg/L			05/03/23 23:01	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			05/03/23 23:01	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			05/03/23 23:01	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			05/03/23 23:01	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			05/03/23 23:01	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			05/03/23 23:01	1
Chlorobenzene	<0.000530 U		0.00100	0.000530 mg/L			05/03/23 23:01	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			05/03/23 23:01	1
Chloroform	<0.000643 U		0.00100	0.000643 mg/L			05/03/23 23:01	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			05/03/23 23:01	1
2-Chlorotoluene	<0.00118 U		0.00200	0.00118 mg/L			05/03/23 23:01	1
4-Chlorotoluene	<0.000472 U		0.00100	0.000472 mg/L			05/03/23 23:01	1
cis-1,2-Dichloroethene	<0.000714 U		0.00100	0.000714 mg/L			05/03/23 23:01	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			05/03/23 23:01	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			05/03/23 23:01	1
1,2-Dibromo-3-Chloropropane	<0.00127 U		0.00500	0.00127 mg/L			05/03/23 23:01	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			05/03/23 23:01	1
1,2-Dichlorobenzene	<0.000509 U		0.00100	0.000509 mg/L			05/03/23 23:01	1
1,3-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			05/03/23 23:01	1
1,4-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			05/03/23 23:01	1
Dichlorodifluoromethane	<0.000919 U		0.00100	0.000919 mg/L			05/03/23 23:01	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			05/03/23 23:01	1
1,2-Dichloroethane	<0.000590 U		0.00100	0.000590 mg/L			05/03/23 23:01	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			05/03/23 23:01	1
1,2-Dichloropropane	<0.000667 U		0.00500	0.000667 mg/L			05/03/23 23:01	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			05/03/23 23:01	1
2,2-Dichloropropane	<0.000780 U		0.00500	0.000780 mg/L			05/03/23 23:01	1
1,1-Dichloropropene	<0.00160 U		0.00500	0.00160 mg/L			05/03/23 23:01	1
Ethylbenzene	0.00748		0.00100	0.000411 mg/L			05/03/23 23:01	1
Hexachlorobutadiene	<0.00126 U		0.00500	0.00126 mg/L			05/03/23 23:01	1
Isopropylbenzene	0.00367		0.00100	0.000613 mg/L			05/03/23 23:01	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			05/03/23 23:01	1
m,p-Xylenes	0.0302		0.0100	0.00124 mg/L			05/03/23 23:01	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			05/03/23 23:01	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			05/03/23 23:01	1
n-Butylbenzene	<0.000644 U		0.00100	0.000644 mg/L			05/03/23 23:01	1
N-Propylbenzene	0.00169		0.00100	0.000498 mg/L			05/03/23 23:01	1
o-Xylene	0.00491		0.00100	0.000551 mg/L			05/03/23 23:01	1
p-Cymene (p-Isopropyltoluene)	<0.000919 U		0.00100	0.000919 mg/L			05/03/23 23:01	1
sec-Butylbenzene	0.000716 J		0.00100	0.000468 mg/L			05/03/23 23:01	1
Styrene	<0.000655 U		0.00100	0.000655 mg/L			05/03/23 23:01	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			05/03/23 23:01	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			05/03/23 23:01	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			05/03/23 23:01	1
Tetrachloroethene	<0.000801 U		0.00100	0.000801 mg/L			05/03/23 23:01	1
Toluene	0.0168		0.00100	0.000475 mg/L			05/03/23 23:01	1
trans-1,2-Dichloroethene	<0.000945 U		0.00100	0.000945 mg/L			05/03/23 23:01	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-27869-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-27869-1
Date Collected: 05/02/23 11:20 Matrix: Water
Date Received: 05/02/23 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			05/03/23 23:01	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/03/23 23:01	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/03/23 23:01	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/03/23 23:01	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/03/23 23:01	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/03/23 23:01	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/03/23 23:01	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/03/23 23:01	1
1,2,4-Trimethylbenzene	0.00721		0.00100	0.000417 mg/L			05/03/23 23:01	1
1,3,5-Trimethylbenzene	0.00229		0.00100	0.000456 mg/L			05/03/23 23:01	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/03/23 23:01	1
Xylenes, Total	0.0351		0.0100	0.00124 mg/L			05/03/23 23:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124				05/03/23 23:01	1
Dibromofluoromethane (Surr)	99		75 - 131				05/03/23 23:01	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144				05/03/23 23:01	1
Toluene-d8 (Surr)	104		80 - 117				05/03/23 23:01	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			05/04/23 03:23	1
Nitrate as N	0.321	B	0.100	0.0391 mg/L			05/04/23 03:23	1
Chloride	225		0.500	0.250 mg/L			05/04/23 03:23	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/04/23 03:23	1
Fluoride	0.331	J	0.500	0.100 mg/L			05/04/23 03:23	1
Sulfate	54.1		0.500	0.200 mg/L			05/04/23 03:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	302		10.0	5.76 mg/L		05/04/23 10:30	05/04/23 16:07	50
Magnesium	56.0		0.200	0.0428 mg/L		05/04/23 10:30	05/04/23 15:53	1
Potassium	4.60		0.500	0.0914 mg/L		05/04/23 10:30	05/04/23 15:53	1
Sodium	86.7		0.500	0.152 mg/L		05/04/23 10:30	05/04/23 15:53	1
SiO2	70.4		1.07	0.471 mg/L		05/04/23 10:30	05/04/23 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-0.0776			%			05/04/23 09:30	1
Alkalinity (SM 2320B)	688		4.00	4.00 mg/L			05/04/23 11:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	688		4.00	4.00 mg/L			05/04/23 11:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/04/23 11:28	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/04/23 11:28	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/04/23 11:28	1
Total Dissolved Solids (SM 2540C)	1290		10.0	10.0 mg/L			05/05/23 12:23	1
pH (SM 4500 H+ B)	6.4	HF		SU			05/04/23 12:59	1
Temperature (SM 4500 H+ B)	18.0	HF		Degrees C			05/04/23 12:59	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-27869-1
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 (80-117)
880-27869-1	Levey Well	101	99	102	104
LCS 860-101625/3	Lab Control Sample	102	110	97	102
LCSD 860-101625/4	Lab Control Sample Dup	101	107	99	99
MB 860-101625/8	Method Blank	105	101	101	105
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: 880-27869-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-101625/8

Matrix: Water

Analysis Batch: 101625

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			05/03/23 20:17	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/03/23 20:17	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/03/23 20:17	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/03/23 20:17	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/03/23 20:17	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/03/23 20:17	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/03/23 20:17	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/03/23 20:17	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/03/23 20:17	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/03/23 20:17	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/03/23 20:17	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/03/23 20:17	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/03/23 20:17	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/03/23 20:17	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/03/23 20:17	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/03/23 20:17	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/03/23 20:17	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/03/23 20:17	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/03/23 20:17	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/03/23 20:17	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/03/23 20:17	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/03/23 20:17	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/03/23 20:17	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/03/23 20:17	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/03/23 20:17	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/03/23 20:17	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/03/23 20:17	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/03/23 20:17	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/03/23 20:17	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/03/23 20:17	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			05/03/23 20:17	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/03/23 20:17	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			05/03/23 20:17	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/03/23 20:17	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			05/03/23 20:17	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/03/23 20:17	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/03/23 20:17	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/03/23 20:17	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			05/03/23 20:17	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			05/03/23 20:17	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/03/23 20:17	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/03/23 20:17	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/03/23 20:17	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/03/23 20:17	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/03/23 20:17	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/03/23 20:17	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/03/23 20:17	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/03/23 20:17	1

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QC Sample Results

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

Job ID: 880-27869-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-101625/8

Matrix: Water

Analysis Batch: 101625

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/03/23 20:17	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			05/03/23 20:17	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/03/23 20:17	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/03/23 20:17	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/03/23 20:17	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/03/23 20:17	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/03/23 20:17	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/03/23 20:17	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/03/23 20:17	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			05/03/23 20:17	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			05/03/23 20:17	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/03/23 20:17	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			05/03/23 20:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		74 - 124		05/03/23 20:17	1
Dibromofluoromethane (Surr)	101		75 - 131		05/03/23 20:17	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/03/23 20:17	1
Toluene-d8 (Surr)	105		80 - 117		05/03/23 20:17	1

Lab Sample ID: LCS 860-101625/3

Matrix: Water

Analysis Batch: 101625

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	0.05080		mg/L		102	75 - 125
Bromobenzene	0.0500	0.05205		mg/L		104	75 - 125
Bromochloromethane	0.0500	0.05175		mg/L		103	60 - 140
Bromodichloromethane	0.0500	0.05424		mg/L		108	75 - 125
Bromoform	0.0500	0.05298		mg/L		106	70 - 130
Bromomethane	0.0500	0.06849		mg/L		137	60 - 140
2-Butanone	0.250	0.2455		mg/L		98	60 - 140
Carbon tetrachloride	0.0500	0.05381		mg/L		108	70 - 130
Chlorobenzene	0.0500	0.05110		mg/L		102	65 - 135
Chloroethane	0.0500	0.05697		mg/L		114	60 - 140
Chloroform	0.0500	0.05526		mg/L		111	70 - 121
Chloromethane	0.0500	0.05264		mg/L		105	60 - 140
2-Chlorotoluene	0.0500	0.05355		mg/L		107	73 - 125
4-Chlorotoluene	0.0500	0.05417		mg/L		108	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05296		mg/L		106	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05652		mg/L		113	74 - 125
Dibromochloromethane	0.0500	0.05311		mg/L		106	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05697		mg/L		114	59 - 125
1,2-Dibromoethane	0.0500	0.05223		mg/L		104	73 - 125
1,2-Dichlorobenzene	0.0500	0.05696		mg/L		114	75 - 125
1,3-Dichlorobenzene	0.0500	0.05238		mg/L		105	75 - 125
1,4-Dichlorobenzene	0.0500	0.05237		mg/L		105	75 - 125
Dichlorodifluoromethane	0.0500	0.04724		mg/L		94	70 - 130

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QC Sample Results

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

Job ID: 880-27869-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-101625/3

Matrix: Water

Analysis Batch: 101625

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	0.05355		mg/L		107	70 - 130
1,2-Dichloroethane	0.0500	0.04843		mg/L		97	72 - 130
1,1-Dichloroethene	0.0500	0.04682		mg/L		94	50 - 150
1,2-Dichloropropane	0.0500	0.05060		mg/L		101	74 - 125
1,3-Dichloropropane	0.0500	0.05049		mg/L		101	75 - 125
2,2-Dichloropropane	0.0500	0.05272		mg/L		105	75 - 125
1,1-Dichloropropene	0.0500	0.05064		mg/L		101	75 - 125
Ethylbenzene	0.0500	0.05157		mg/L		103	75 - 125
Hexachlorobutadiene	0.0500	0.05383		mg/L		108	75 - 125
Isopropylbenzene	0.0500	0.05258		mg/L		105	75 - 125
Methylene Chloride	0.0500	0.04800		mg/L		96	75 - 125
m,p-Xylenes	0.0500	0.05242		mg/L		105	75 - 125
MTBE	0.0500	0.05124		mg/L		102	65 - 135
Naphthalene	0.0500	0.05793		mg/L		116	70 - 130
n-Butylbenzene	0.0500	0.05632		mg/L		113	75 - 125
N-Propylbenzene	0.0500	0.05383		mg/L		108	75 - 125
o-Xylene	0.0500	0.05268		mg/L		105	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05321		mg/L		106	75 - 125
sec-Butylbenzene	0.0500	0.05301		mg/L		106	75 - 125
Styrene	0.0500	0.05231		mg/L		105	75 - 125
tert-Butylbenzene	0.0500	0.05276		mg/L		106	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05485		mg/L		110	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05124		mg/L		102	74 - 125
Tetrachloroethene	0.0500	0.04979		mg/L		100	71 - 125
Toluene	0.0500	0.05140		mg/L		103	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04981		mg/L		100	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05815		mg/L		116	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05643		mg/L		113	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05511		mg/L		110	75 - 135
1,1,1-Trichloroethane	0.0500	0.05091		mg/L		102	70 - 130
1,1,2-Trichloroethane	0.0500	0.05091		mg/L		102	70 - 130
Trichloroethene	0.0500	0.05077		mg/L		102	75 - 135
Trichlorofluoromethane	0.0500	0.05319		mg/L		106	60 - 140
1,2,3-Trichloropropane	0.0500	0.05184		mg/L		104	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05373		mg/L		107	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05399		mg/L		108	60 - 140
Vinyl chloride	0.0500	0.05498		mg/L		110	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	110		75 - 131
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
Toluene-d8 (Surr)	102		80 - 117

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QC Sample Results

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

Job ID: 880-27869-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-101625/4

Matrix: Water

Analysis Batch: 101625

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	0.04949		mg/L		99	75 - 125	3	25
Bromobenzene	0.0500	0.04871		mg/L		97	75 - 125	7	25
Bromochloromethane	0.0500	0.05026		mg/L		101	60 - 140	3	25
Bromodichloromethane	0.0500	0.05211		mg/L		104	75 - 125	4	25
Bromoform	0.0500	0.04929		mg/L		99	70 - 130	7	25
Bromomethane	0.0500	0.06091		mg/L		122	60 - 140	12	25
2-Butanone	0.250	0.2312		mg/L		92	60 - 140	6	25
Carbon tetrachloride	0.0500	0.05113		mg/L		102	70 - 130	5	25
Chlorobenzene	0.0500	0.04924		mg/L		98	65 - 135	4	25
Chloroethane	0.0500	0.05165		mg/L		103	60 - 140	10	25
Chloroform	0.0500	0.05100		mg/L		102	70 - 121	8	25
Chloromethane	0.0500	0.04764		mg/L		95	60 - 140	10	25
2-Chlorotoluene	0.0500	0.05059		mg/L		101	73 - 125	6	25
4-Chlorotoluene	0.0500	0.05141		mg/L		103	74 - 125	5	25
cis-1,2-Dichloroethene	0.0500	0.05015		mg/L		100	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.05336		mg/L		107	74 - 125	6	25
Dibromochloromethane	0.0500	0.05169		mg/L		103	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05423		mg/L		108	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.04949		mg/L		99	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.05257		mg/L		105	75 - 125	8	25
1,3-Dichlorobenzene	0.0500	0.05007		mg/L		100	75 - 125	5	25
1,4-Dichlorobenzene	0.0500	0.04983		mg/L		100	75 - 125	5	25
Dichlorodifluoromethane	0.0500	0.04382		mg/L		88	70 - 130	8	25
1,1-Dichloroethane	0.0500	0.04980		mg/L		100	70 - 130	7	25
1,2-Dichloroethane	0.0500	0.04812		mg/L		96	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.04347		mg/L		87	50 - 150	7	25
1,2-Dichloropropane	0.0500	0.04865		mg/L		97	74 - 125	4	25
1,3-Dichloropropane	0.0500	0.04843		mg/L		97	75 - 125	4	25
2,2-Dichloropropane	0.0500	0.05177		mg/L		104	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.04816		mg/L		96	75 - 125	5	25
Ethylbenzene	0.0500	0.04990		mg/L		100	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.05430		mg/L		109	75 - 125	1	25
Isopropylbenzene	0.0500	0.05140		mg/L		103	75 - 125	2	25
Methylene Chloride	0.0500	0.04336		mg/L		87	75 - 125	10	25
m,p-Xylenes	0.0500	0.04946		mg/L		99	75 - 125	6	25
MTBE	0.0500	0.04661		mg/L		93	65 - 135	9	25
Naphthalene	0.0500	0.05489		mg/L		110	70 - 130	5	25
n-Butylbenzene	0.0500	0.05572		mg/L		111	75 - 125	1	25
N-Propylbenzene	0.0500	0.05151		mg/L		103	75 - 125	4	25
o-Xylene	0.0500	0.05037		mg/L		101	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05226		mg/L		105	75 - 125	2	25
sec-Butylbenzene	0.0500	0.05225		mg/L		104	75 - 125	1	25
Styrene	0.0500	0.05018		mg/L		100	75 - 125	4	25
tert-Butylbenzene	0.0500	0.05128		mg/L		103	75 - 125	3	25
1,1,1,2-Tetrachloroethane	0.0500	0.05313		mg/L		106	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.04762		mg/L		95	74 - 125	7	25
Tetrachloroethene	0.0500	0.05018		mg/L		100	71 - 125	1	25
Toluene	0.0500	0.04893		mg/L		98	70 - 130	5	25

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QC Sample Results

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

Job ID: 880-27869-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-101625/4

Matrix: Water

Analysis Batch: 101625

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	0.04623		mg/L		92	75 - 125	7	25
trans-1,3-Dichloropropene	0.0500	0.05598		mg/L		112	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05516		mg/L		110	75 - 137	2	25
1,2,4-Trichlorobenzene	0.0500	0.05389		mg/L		108	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05256		mg/L		105	70 - 130	3	25
1,1,2-Trichloroethane	0.0500	0.04794		mg/L		96	70 - 130	6	25
Trichloroethene	0.0500	0.04951		mg/L		99	75 - 135	3	25
Trichlorofluoromethane	0.0500	0.05095		mg/L		102	60 - 140	4	25
1,2,3-Trichloropropane	0.0500	0.04795		mg/L		96	75 - 125	8	25
1,2,4-Trimethylbenzene	0.0500	0.05166		mg/L		103	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.05241		mg/L		105	60 - 140	3	25
Vinyl chloride	0.0500	0.05051		mg/L		101	60 - 140	8	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	107		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-101661/13

Matrix: Water

Analysis Batch: 101661

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			05/03/23 22:18	1
Chloride	<0.250	U	0.500	0.250 mg/L			05/03/23 22:18	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/03/23 22:18	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/03/23 22:18	1

Lab Sample ID: LCS 860-101661/14

Matrix: Water

Analysis Batch: 101661

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	9.538		mg/L		95	90 - 110
Chloride	10.0	10.08		mg/L		101	90 - 110
Fluoride	10.0	10.31		mg/L		103	90 - 110
Sulfate	10.0	9.714		mg/L		97	90 - 110

Lab Sample ID: LCSD 860-101661/15

Matrix: Water

Analysis Batch: 101661

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	9.488		mg/L		95	90 - 110	1	20
Chloride	10.0	10.02		mg/L		100	90 - 110	1	20
Fluoride	10.0	10.09		mg/L		101	90 - 110	2	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-27869-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-101661/15

Matrix: Water

Analysis Batch: 101661

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	9.647		mg/L		96	90 - 110	1	20

Lab Sample ID: LLCS 860-101661/17

Matrix: Water

Analysis Batch: 101661

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	0.4823	J	mg/L		96	50 - 150
Chloride	0.500	0.5038		mg/L		101	50 - 150
Fluoride	0.500	0.5115		mg/L		102	50 - 150
Sulfate	0.500	0.4979	J	mg/L		100	50 - 150

Lab Sample ID: MB 860-101662/13

Matrix: Water

Analysis Batch: 101662

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.04085	J	0.100	0.0391 mg/L			05/03/23 22:18	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/03/23 22:18	1

Lab Sample ID: LCS 860-101662/14

Matrix: Water

Analysis Batch: 101662

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	9.910		mg/L		99	80 - 120
Nitrite as N	10.0	9.763		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-101662/15

Matrix: Water

Analysis Batch: 101662

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	9.891		mg/L		99	80 - 120	0	20
Nitrite as N	10.0	9.818		mg/L		98	80 - 120	1	20

Lab Sample ID: LLCS 860-101662/16

Matrix: Water

Analysis Batch: 101662

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	0.1340		mg/L		134	50 - 150
Nitrite as N	0.100	0.09346	J	mg/L		93	50 - 150

Eurofins Midland

QC Sample Results

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

Job ID: 880-27869-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-101750/1-A

Matrix: Water

Analysis Batch: 101837

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 101750

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		05/04/23 10:30	05/04/23 15:45	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		05/04/23 10:30	05/04/23 15:45	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		05/04/23 10:30	05/04/23 15:45	1
Sodium	<0.152	U	0.500	0.152 mg/L		05/04/23 10:30	05/04/23 15:45	1
SiO2	<0.471	U	1.07	0.471 mg/L		05/04/23 10:30	05/04/23 15:45	1

Lab Sample ID: LCS 860-101750/2-A

Matrix: Water

Analysis Batch: 101837

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 101750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	26.10		mg/L		104	85 - 115
Magnesium	25.0	24.90		mg/L		100	85 - 115
Potassium	10.0	10.30		mg/L		103	85 - 115
Sodium	25.0	25.60		mg/L		102	85 - 115
SiO2	21.4	21.83		mg/L		102	85 - 115

Lab Sample ID: LCSD 860-101750/3-A

Matrix: Water

Analysis Batch: 101837

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 101750

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	26.10		mg/L		104	85 - 115	0	20
Magnesium	25.0	24.90		mg/L		100	85 - 115	0	20
Potassium	10.0	10.20		mg/L		102	85 - 115	1	20
Sodium	25.0	25.60		mg/L		102	85 - 115	0	20
SiO2	21.4	21.83		mg/L		102	85 - 115	0	20

Lab Sample ID: LLCS 860-101750/4-A

Matrix: Water

Analysis Batch: 101837

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 101750

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2450		mg/L		123	50 - 150
Magnesium	0.200	0.2320		mg/L		116	50 - 150
Potassium	0.500	0.5440		mg/L		109	50 - 150
Sodium	0.500	0.5860		mg/L		117	50 - 150
SiO2	1.07	1.111		mg/L		104	50 - 150

Lab Sample ID: 880-27869-1 MS

Matrix: Water

Analysis Batch: 101837

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 101750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	294		25.0	320.0	4	mg/L		104	70 - 130
Magnesium	56.0		25.0	82.00		mg/L		104	70 - 130
Potassium	4.60		10.0	15.80		mg/L		112	70 - 130
Sodium	86.7		25.0	115.0		mg/L		113	70 - 130
SiO2	70.4		21.4	94.16		mg/L		111	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-27869-1
SDG: Hobbs NM

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

Lab Sample ID: 880-27869-1 MSD

Matrix: Water

Analysis Batch: 101837

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 101750

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	294		25.0	321.0	4	mg/L		108	70 - 130	0	20
Magnesium	56.0		25.0	82.30		mg/L		105	70 - 130	0	20
Potassium	4.60		10.0	15.80		mg/L		112	70 - 130	0	20
Sodium	86.7		25.0	115.0		mg/L		113	70 - 130	0	20
SiO2	70.4		21.4	94.37		mg/L		112	70 - 130	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-101813/3

Matrix: Water

Analysis Batch: 101813

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			05/04/23 10:58	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/04/23 10:58	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/04/23 10:58	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			05/04/23 10:58	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			05/04/23 10:58	1

Lab Sample ID: LCS 860-101813/4

Matrix: Water

Analysis Batch: 101813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Alkalinity	250	246.7		mg/L		99	85 - 115

Lab Sample ID: LCSD 860-101813/5

Matrix: Water

Analysis Batch: 101813

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	246.2		mg/L		98	85 - 115	0	20

Lab Sample ID: 880-27869-1 DU

Matrix: Water

Analysis Batch: 101813

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Alkalinity	688		687.6		mg/L		0	20
Bicarbonate Alkalinity as CaCO3	688		687.6		mg/L		0	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: 880-27869-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-101955/1

Matrix: Water

Analysis Batch: 101955

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			05/05/23 12:23	1

Lab Sample ID: LCS 860-101955/2

Matrix: Water

Analysis Batch: 101955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 860-101955/3

Matrix: Water

Analysis Batch: 101955

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	1001		mg/L		100	80 - 120	0	10

Lab Sample ID: LLCS 860-101955/4

Matrix: Water

Analysis Batch: 101955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	5.500		mg/L		110	50 - 150

QC Association Summary

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

Job ID: 880-27869-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 101625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27869-1	Levey Well	Total/NA	Water	8260C	
MB 860-101625/8	Method Blank	Total/NA	Water	8260C	
LCS 860-101625/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-101625/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 101661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27869-1	Levey Well	Total/NA	Water	300.0	
MB 860-101661/13	Method Blank	Total/NA	Water	300.0	
LCS 860-101661/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-101661/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-101661/17	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 101662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27869-1	Levey Well	Total/NA	Water	300.0	
MB 860-101662/13	Method Blank	Total/NA	Water	300.0	
LCS 860-101662/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-101662/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-101662/16	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 101750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27869-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-101750/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-101750/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-101750/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-101750/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-27869-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-27869-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 101837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27869-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	101750
880-27869-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	101750
MB 860-101750/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	101750
LCS 860-101750/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	101750
LCSD 860-101750/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	101750
LLCS 860-101750/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	101750
880-27869-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	101750
880-27869-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	101750

General Chemistry

Analysis Batch: 101713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27869-1	Levey Well	Total/NA	Water	SM 1030E	

Eurofins Midland

QC Association Summary

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

Job ID: 880-27869-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 101796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27869-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 101813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27869-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-101813/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-101813/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-101813/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-27869-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 101955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27869-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-101955/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-101955/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-101955/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-101955/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

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

Job ID: 880-27869-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-27869-1
Date Collected: 05/02/23 11:20 Matrix: Water
Date Received: 05/02/23 15:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	101625	NA	EET HOU	05/03/23 23:01
Total/NA	Analysis	300.0		1	101661	WP	EET HOU	05/04/23 03:23
Total/NA	Analysis	300.0		1	101662	WP	EET HOU	05/04/23 03:23
Total Recoverable	Prep	200.7			101750	MD	EET HOU	05/04/23 10:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	101837	JDM	EET HOU	05/04/23 15:53
Total Recoverable	Prep	200.7			101750	MD	EET HOU	05/04/23 10:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	101837	JDM	EET HOU	05/04/23 16:07
Total/NA	Analysis	SM 1030E		1	101713	SC	EET HOU	05/04/23 09:30
Total/NA	Analysis	SM 2320B		1	101813	TL	EET HOU	05/04/23 11:28
Total/NA	Analysis	SM 2540C		1	101955	DR	EET HOU	05/05/23 12:23
Total/NA	Analysis	SM 4500 H+ B		1	101796	TL	EET HOU	05/04/23 12:59

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: 880-27869-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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: 880-27869-1
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: 880-27869-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27869-1	Levey Well	Water	05/02/23 11:20	05/02/23 15:58

- 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) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix AZ (480) 335-0900 Atlanta GA (770) 444-9800 Tampa FL (813) 233-3333
Albuquerque NM (505) 382-7550

Chain of Custody

Work Order No.:

17010

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

-6-20-2000) www.xenco.com Page 1 of 1

Work Order Comments

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

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

[illegible][illegible]

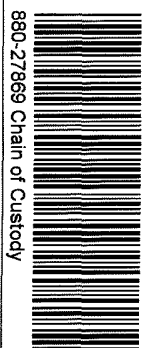
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number								VOCs	Anions: F	Cations: P	pH	Alkalinity	TDS	Sample Comments	
Levey Well	GW	5-2-23	1120	-	7															
GUSTODY SEAL QEC Quality Environmental Containers 800-255-3950 • 304-255-3900																				

Total	200.7 / 6010	200.8 / 6020:	Circle Method(s) and Metal(s) to be analyzed
8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu re Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
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 \$8 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		5/2/23			
		1550			

CUSTODY SEAL
QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900
DATE: 5-2-23
SIGNATURE: [Signature]



880-27869 Chain of Custody

TAT starts the day received by the lab if received by 4 30pm

Sample Comments

24hr

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-27869-1

SDG Number: Hobbs NM

Login Number: 27869

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: 880-27869-1

SDG Number: Hobbs NM

Login Number: 27869

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 05/03/23 01:18 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/16/2023 12:48:23 PM

JOB DESCRIPTION

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

JOB NUMBER

880-28341-1

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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5/16/2023 12:48:23 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: 880-28341-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-28341-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Definitions/Glossary

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

Job ID: 880-28341-1
SDG: Hobbs NM

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-28341-1
SDG: Hobbs NM

Job ID: 880-28341-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-28341-1****Receipt**

The sample was received on 5/11/2023 3:52 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 5.4°C

GC/MS VOA

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 860-102880 recovered outside control limits for the following analytes: 1,1-Dichloropropene, Carbon tetrachloride and Dichloro difluoromethane.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 860-102880 recovered outside control limits for the following analytes: Dichloro difluoromethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

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

HPLC/IC

Method 300_ORGFM_28D: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for analytical batch 860-103246. 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 860-103280 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/) recovery is within acceptance limits.

Method 300_ORGFMS: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for analytical batch 860-103247. The associated laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300_ORGFMS: The following sample was analyzed outside of analytical holding time due to lab error: Levey Well (880-28341-1).

Method 300_ORGFMS: The method blank for analytical batch 860-103247 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.

Method 300_ORGFMS: The instrument blank/CCB for analytical batch 860-103247 contained Nitrite as N greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 860-103247 was outside control limits. Sample non-homogeneity is suspected.

Method 300_ORGFMS: Reanalysis of the following sample was performed outside of the analytical holding time due to
<EXPLANATION_REQUIRED> : Levey Well (880-28341-1).

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

Metals

Method 200.7: Due to the high concentration of Calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-103061 and analytical batch 860-103084 could not be evaluated for accuracy and precision. The associated laboratory control

Case Narrative

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

Job ID: 880-28341-1
SDG: Hobbs NM

Job ID: 880-28341-1 (Continued)

Laboratory: Eurofins Midland (Continued)

sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

General Chemistry

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

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Client Sample Results

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

Job ID: 880-28341-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-28341-1

Date Collected: 05/11/23 11:45

Matrix: Water

Date Received: 05/11/23 15:52

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00224		0.00100	0.000533	mg/L		05/12/23 21:22	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		05/12/23 21:22	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		05/12/23 21:22	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		05/12/23 21:22	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		05/12/23 21:22	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		05/12/23 21:22	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		05/12/23 21:22	1
Carbon tetrachloride	<0.000896	U *1	0.00500	0.000896	mg/L		05/12/23 21:22	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		05/12/23 21:22	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		05/12/23 21:22	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		05/12/23 21:22	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		05/12/23 21:22	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		05/12/23 21:22	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		05/12/23 21:22	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		05/12/23 21:22	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		05/12/23 21:22	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		05/12/23 21:22	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		05/12/23 21:22	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		05/12/23 21:22	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		05/12/23 21:22	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		05/12/23 21:22	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		05/12/23 21:22	1
Dichlorodifluoromethane	<0.000919	U *1	0.00100	0.000919	mg/L		05/12/23 21:22	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		05/12/23 21:22	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		05/12/23 21:22	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		05/12/23 21:22	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		05/12/23 21:22	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		05/12/23 21:22	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		05/12/23 21:22	1
1,1-Dichloropropene	<0.00160	U *1	0.00500	0.00160	mg/L		05/12/23 21:22	1
Ethylbenzene	0.00757		0.00100	0.000411	mg/L		05/12/23 21:22	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		05/12/23 21:22	1
Isopropylbenzene	0.00364		0.00100	0.000613	mg/L		05/12/23 21:22	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		05/12/23 21:22	1
m,p-Xylenes	0.0277		0.0100	0.00124	mg/L		05/12/23 21:22	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		05/12/23 21:22	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		05/12/23 21:22	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		05/12/23 21:22	1
N-Propylbenzene	0.00166		0.00100	0.000498	mg/L		05/12/23 21:22	1
o-Xylene	0.00487		0.00100	0.000551	mg/L		05/12/23 21:22	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		05/12/23 21:22	1
sec-Butylbenzene	0.000743	J	0.00100	0.000468	mg/L		05/12/23 21:22	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		05/12/23 21:22	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		05/12/23 21:22	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		05/12/23 21:22	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		05/12/23 21:22	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		05/12/23 21:22	1
Toluene	0.0163		0.00100	0.000475	mg/L		05/12/23 21:22	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		05/12/23 21:22	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-28341-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-28341-1
Date Collected: 05/11/23 11:45 Matrix: Water
Date Received: 05/11/23 15:52

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			05/12/23 21:22	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/12/23 21:22	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/12/23 21:22	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/12/23 21:22	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/12/23 21:22	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/12/23 21:22	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/12/23 21:22	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/12/23 21:22	1
1,2,4-Trimethylbenzene	0.00700		0.00100	0.000417 mg/L			05/12/23 21:22	1
1,3,5-Trimethylbenzene	0.00230		0.00100	0.000456 mg/L			05/12/23 21:22	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/12/23 21:22	1
Xylenes, Total	0.0326		0.0100	0.00124 mg/L			05/12/23 21:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124				05/12/23 21:22	1
Dibromofluoromethane (Surr)	89		75 - 131				05/12/23 21:22	1
1,2-Dichloroethane-d4 (Surr)	112		63 - 144				05/12/23 21:22	1
Toluene-d8 (Surr)	110		80 - 117				05/12/23 21:22	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.400	J	0.500	0.0711 mg/L			05/15/23 22:51	1
Nitrate as N	10.4	H	0.100	0.0391 mg/L			05/13/23 17:16	1
Chloride	216		0.500	0.250 mg/L			05/15/23 22:51	1
Nitrite as N	2.66	H B	0.100	0.0293 mg/L			05/13/23 17:16	1
Fluoride	0.400	J	0.500	0.100 mg/L			05/15/23 22:51	1
Sulfate	44.9		0.500	0.200 mg/L			05/15/23 22:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	236		10.0	5.76 mg/L		05/13/23 10:00	05/13/23 14:26	50
Magnesium	51.7		0.200	0.0428 mg/L		05/13/23 10:00	05/13/23 13:59	1
Potassium	4.41		0.500	0.0914 mg/L		05/13/23 10:00	05/13/23 13:59	1
Sodium	82.0		0.500	0.152 mg/L		05/13/23 10:00	05/13/23 13:59	1
SiO2	67.4		1.07	0.471 mg/L		05/13/23 10:00	05/13/23 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-7.60			%			05/16/23 12:53	1
Alkalinity (SM 2320B)	637		4.00	4.00 mg/L			05/15/23 13:54	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	637		4.00	4.00 mg/L			05/15/23 13:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/15/23 13:54	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/15/23 13:54	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/15/23 13:54	1
Total Dissolved Solids (SM 2540C)	1680		10.0	10.0 mg/L			05/15/23 08:48	1
pH (SM 4500 H+ B)	6.5	HF		SU			05/15/23 12:56	1
Temperature (SM 4500 H+ B)	13.7	HF		Degrees C			05/15/23 12:56	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-28341-1
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 (80-117)
880-28341-1	Levey Well	102	89	112	110
LCS 860-102880/1011	Lab Control Sample	101	95	93	102
LCSD 860-102880/12	Lab Control Sample Dup	99	102	88	98
MB 860-102880/17	Method Blank	103	115	91	103
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: 880-28341-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-102880/17

Matrix: Water

Analysis Batch: 102880

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			05/12/23 18:58	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/12/23 18:58	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/12/23 18:58	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/12/23 18:58	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/12/23 18:58	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/12/23 18:58	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/12/23 18:58	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/12/23 18:58	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/12/23 18:58	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/12/23 18:58	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/12/23 18:58	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/12/23 18:58	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/12/23 18:58	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/12/23 18:58	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/12/23 18:58	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/12/23 18:58	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/12/23 18:58	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/12/23 18:58	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/12/23 18:58	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/12/23 18:58	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/12/23 18:58	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/12/23 18:58	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/12/23 18:58	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/12/23 18:58	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/12/23 18:58	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/12/23 18:58	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/12/23 18:58	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/12/23 18:58	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/12/23 18:58	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/12/23 18:58	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			05/12/23 18:58	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/12/23 18:58	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			05/12/23 18:58	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/12/23 18:58	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			05/12/23 18:58	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/12/23 18:58	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/12/23 18:58	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/12/23 18:58	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			05/12/23 18:58	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			05/12/23 18:58	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/12/23 18:58	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/12/23 18:58	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/12/23 18:58	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/12/23 18:58	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/12/23 18:58	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/12/23 18:58	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/12/23 18:58	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/12/23 18:58	1

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QC Sample Results

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

Job ID: 880-28341-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-102880/17

Matrix: Water

Analysis Batch: 102880

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/12/23 18:58	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			05/12/23 18:58	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/12/23 18:58	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/12/23 18:58	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/12/23 18:58	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/12/23 18:58	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/12/23 18:58	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/12/23 18:58	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/12/23 18:58	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			05/12/23 18:58	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			05/12/23 18:58	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/12/23 18:58	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			05/12/23 18:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124		05/12/23 18:58	1
Dibromofluoromethane (Surr)	115		75 - 131		05/12/23 18:58	1
1,2-Dichloroethane-d4 (Surr)	91		63 - 144		05/12/23 18:58	1
Toluene-d8 (Surr)	103		80 - 117		05/12/23 18:58	1

Lab Sample ID: LCS 860-102880/1011

Matrix: Water

Analysis Batch: 102880

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	0.04331		mg/L		87	75 - 125
Bromobenzene	0.0500	0.04959		mg/L		99	75 - 125
Bromochloromethane	0.0500	0.05452		mg/L		109	60 - 140
Bromodichloromethane	0.0500	0.04713		mg/L		94	75 - 125
Bromoform	0.0500	0.05093		mg/L		102	70 - 130
Bromomethane	0.0500	0.03894		mg/L		78	60 - 140
2-Butanone	0.250	0.2684		mg/L		107	60 - 140
Carbon tetrachloride	0.0500	0.04331		mg/L		87	70 - 130
Chlorobenzene	0.0500	0.04795		mg/L		96	65 - 135
Chloroethane	0.0500	0.04192		mg/L		84	60 - 140
Chloroform	0.0500	0.05227		mg/L		105	70 - 121
Chloromethane	0.0500	0.04826		mg/L		97	60 - 140
2-Chlorotoluene	0.0500	0.05084		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.05108		mg/L		102	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05562		mg/L		111	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05162		mg/L		103	74 - 125
Dibromochloromethane	0.0500	0.04844		mg/L		97	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05656		mg/L		113	59 - 125
1,2-Dibromoethane	0.0500	0.04849		mg/L		97	73 - 125
1,2-Dichlorobenzene	0.0500	0.05215		mg/L		104	75 - 125
1,3-Dichlorobenzene	0.0500	0.05061		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05045		mg/L		101	75 - 125
Dichlorodifluoromethane	0.0500	0.05141		mg/L		103	50 - 150

Eurofins Midland

QC Sample Results

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

Job ID: 880-28341-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-102880/1011

Matrix: Water

Analysis Batch: 102880

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	0.04062		mg/L		81	70 - 130
1,2-Dichloroethane	0.0500	0.04312		mg/L		86	72 - 130
1,1-Dichloroethene	0.0500	0.04161		mg/L		83	50 - 150
1,2-Dichloropropane	0.0500	0.04567		mg/L		91	74 - 125
1,3-Dichloropropane	0.0500	0.04686		mg/L		94	75 - 125
2,2-Dichloropropane	0.0500	0.05949		mg/L		119	75 - 125
1,1-Dichloropropene	0.0500	0.04231		mg/L		85	75 - 125
Ethylbenzene	0.0500	0.04956		mg/L		99	75 - 125
Hexachlorobutadiene	0.0500	0.05543		mg/L		111	75 - 125
Isopropylbenzene	0.0500	0.05141		mg/L		103	75 - 125
Methylene Chloride	0.0500	0.03869		mg/L		77	71 - 125
m,p-Xylenes	0.0500	0.04980		mg/L		100	75 - 125
MTBE	0.0500	0.04027		mg/L		81	65 - 135
Naphthalene	0.0500	0.06482		mg/L		130	70 - 130
n-Butylbenzene	0.0500	0.05181		mg/L		104	75 - 125
N-Propylbenzene	0.0500	0.04966		mg/L		99	75 - 125
o-Xylene	0.0500	0.05046		mg/L		101	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05005		mg/L		100	75 - 125
sec-Butylbenzene	0.0500	0.05182		mg/L		104	75 - 125
Styrene	0.0500	0.05219		mg/L		104	75 - 125
tert-Butylbenzene	0.0500	0.05131		mg/L		103	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05060		mg/L		101	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05130		mg/L		103	74 - 125
Tetrachloroethene	0.0500	0.04842		mg/L		97	71 - 125
Toluene	0.0500	0.04697		mg/L		94	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04110		mg/L		82	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05504		mg/L		110	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.06040		mg/L		121	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05719		mg/L		114	75 - 135
1,1,1-Trichloroethane	0.0500	0.04658		mg/L		93	70 - 130
1,1,2-Trichloroethane	0.0500	0.04807		mg/L		96	70 - 130
Trichloroethene	0.0500	0.05275		mg/L		106	75 - 135
Trichlorofluoromethane	0.0500	0.04545		mg/L		91	60 - 140
1,2,3-Trichloropropane	0.0500	0.04874		mg/L		97	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04986		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05017		mg/L		100	60 - 140
Vinyl chloride	0.0500	0.04364		mg/L		87	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	95		75 - 131
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
Toluene-d8 (Surr)	102		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-28341-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-102880/12

Matrix: Water

Analysis Batch: 102880

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	0.04558		mg/L		91	75 - 125	5	25
Bromobenzene	0.0500	0.04944		mg/L		99	75 - 125	0	25
Bromochloromethane	0.0500	0.05160		mg/L		103	60 - 140	6	25
Bromodichloromethane	0.0500	0.05098		mg/L		102	75 - 125	8	25
Bromoform	0.0500	0.05034		mg/L		101	70 - 130	1	25
Bromomethane	0.0500	0.03902		mg/L		78	60 - 140	0	25
2-Butanone	0.250	0.2967		mg/L		119	60 - 140	10	25
Carbon tetrachloride	0.0500	0.05814	*1	mg/L		116	70 - 130	29	25
Chlorobenzene	0.0500	0.04954		mg/L		99	65 - 135	3	25
Chloroethane	0.0500	0.04237		mg/L		85	60 - 140	1	25
Chloroform	0.0500	0.05154		mg/L		103	70 - 121	1	25
Chloromethane	0.0500	0.05839		mg/L		117	60 - 140	19	25
2-Chlorotoluene	0.0500	0.04957		mg/L		99	73 - 125	3	25
4-Chlorotoluene	0.0500	0.05067		mg/L		101	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.05978		mg/L		120	75 - 125	7	25
cis-1,3-Dichloropropene	0.0500	0.05264		mg/L		105	74 - 125	2	25
Dibromochloromethane	0.0500	0.04993		mg/L		100	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05752		mg/L		115	59 - 125	2	25
1,2-Dibromoethane	0.0500	0.04968		mg/L		99	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05163		mg/L		103	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.04948		mg/L		99	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04893		mg/L		98	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.06821	*1	mg/L		136	50 - 150	28	25
1,1-Dichloroethane	0.0500	0.04067		mg/L		81	70 - 130	0	25
1,2-Dichloroethane	0.0500	0.04596		mg/L		92	72 - 130	6	25
1,1-Dichloroethene	0.0500	0.04301		mg/L		86	50 - 150	3	25
1,2-Dichloropropane	0.0500	0.05089		mg/L		102	74 - 125	11	25
1,3-Dichloropropane	0.0500	0.04748		mg/L		95	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05929		mg/L		119	75 - 125	0	25
1,1-Dichloropropene	0.0500	0.05525	*1	mg/L		111	75 - 125	27	25
Ethylbenzene	0.0500	0.04930		mg/L		99	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05421		mg/L		108	75 - 125	2	25
Isopropylbenzene	0.0500	0.05179		mg/L		104	75 - 125	1	25
Methylene Chloride	0.0500	0.03952		mg/L		79	71 - 125	2	25
m,p-Xylenes	0.0500	0.04988		mg/L		100	75 - 125	0	25
MTBE	0.0500	0.04117		mg/L		82	65 - 135	2	25
Naphthalene	0.0500	0.06352		mg/L		127	70 - 130	2	25
n-Butylbenzene	0.0500	0.05244		mg/L		105	75 - 125	1	25
N-Propylbenzene	0.0500	0.05138		mg/L		103	75 - 125	3	25
o-Xylene	0.0500	0.05133		mg/L		103	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05112		mg/L		102	75 - 125	2	25
sec-Butylbenzene	0.0500	0.05213		mg/L		104	75 - 125	1	25
Styrene	0.0500	0.05228		mg/L		105	75 - 125	0	25
tert-Butylbenzene	0.0500	0.05176		mg/L		104	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.05088		mg/L		102	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05193		mg/L		104	74 - 125	1	25
Tetrachloroethene	0.0500	0.04840		mg/L		97	71 - 125	0	25
Toluene	0.0500	0.04810		mg/L		96	70 - 130	2	25

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QC Sample Results

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

Job ID: 880-28341-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-102880/12

Matrix: Water

Analysis Batch: 102880

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	0.04345		mg/L		87	75 - 125	6	25
trans-1,3-Dichloropropene	0.0500	0.04970		mg/L		99	66 - 125	10	25
1,2,3-Trichlorobenzene	0.0500	0.05812		mg/L		116	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.05436		mg/L		109	75 - 135	5	25
1,1,1-Trichloroethane	0.0500	0.05246		mg/L		105	70 - 130	12	25
1,1,2-Trichloroethane	0.0500	0.05018		mg/L		100	70 - 130	4	25
Trichloroethene	0.0500	0.05051		mg/L		101	75 - 135	4	25
Trichlorofluoromethane	0.0500	0.04912		mg/L		98	60 - 140	8	25
1,2,3-Trichloropropane	0.0500	0.04959		mg/L		99	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.04939		mg/L		99	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.05135		mg/L		103	60 - 140	2	25
Vinyl chloride	0.0500	0.04678		mg/L		94	60 - 140	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	88		63 - 144
Toluene-d8 (Surr)	98		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-103246/3

Matrix: Water

Analysis Batch: 103246

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			05/13/23 15:34	1
Chloride	<0.250	U	0.500	0.250 mg/L			05/13/23 15:34	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/13/23 15:34	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/13/23 15:34	1

Lab Sample ID: LCS 860-103246/4

Matrix: Water

Analysis Batch: 103246

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	10.20		mg/L		102	90 - 110
Chloride	10.0	10.19		mg/L		102	90 - 110
Fluoride	10.0	10.57		mg/L		106	90 - 110
Sulfate	10.0	10.44		mg/L		104	90 - 110

Lab Sample ID: LCSD 860-103246/5

Matrix: Water

Analysis Batch: 103246

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	10.19		mg/L		102	90 - 110	0	20
Chloride	10.0	10.20		mg/L		102	90 - 110	0	20
Fluoride	10.0	10.57		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: 880-28341-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-103246/5

Matrix: Water

Analysis Batch: 103246

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	10.35		mg/L		104	90 - 110	1	20

Lab Sample ID: LLCS 860-103246/7

Matrix: Water

Analysis Batch: 103246

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	0.4685	J	mg/L		94	50 - 150		
Chloride	0.500	0.4900	J	mg/L		98	50 - 150		
Fluoride	0.500	0.5192		mg/L		104	50 - 150		
Sulfate	0.500	0.4863	J	mg/L		97	50 - 150		

Lab Sample ID: MB 860-103247/3

Matrix: Water

Analysis Batch: 103247

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			05/13/23 15:34	1
Nitrite as N	0.04287	J	0.100	0.0293 mg/L			05/13/23 15:34	1

Lab Sample ID: LCS 860-103247/4

Matrix: Water

Analysis Batch: 103247

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	10.31		mg/L		103	80 - 120		
Nitrite as N	10.0	10.07		mg/L		101	80 - 120		

Lab Sample ID: LCSD 860-103247/5

Matrix: Water

Analysis Batch: 103247

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	10.31		mg/L		103	80 - 120	0	20
Nitrite as N	10.0	10.07		mg/L		101	80 - 120	0	20

Lab Sample ID: LLCS 860-103247/6

Matrix: Water

Analysis Batch: 103247

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	0.1142		mg/L		114	50 - 150		
Nitrite as N	0.100	0.1358		mg/L		136	50 - 150		

Lab Sample ID: MB 860-103280/3

Matrix: Water

Analysis Batch: 103280

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			05/15/23 15:04	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-28341-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-103280/3

Matrix: Water

Analysis Batch: 103280

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			05/15/23 15:04	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/15/23 15:04	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/15/23 15:04	1

Lab Sample ID: MB 860-103280/38

Matrix: Water

Analysis Batch: 103280

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			05/15/23 21:38	1
Chloride	<0.250	U	0.500	0.250 mg/L			05/15/23 21:38	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/15/23 21:38	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/15/23 21:38	1

Lab Sample ID: LCS 860-103280/39

Matrix: Water

Analysis Batch: 103280

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	10.13		mg/L		101	90 - 110
Chloride	10.0	10.17		mg/L		102	90 - 110
Fluoride	10.0	10.74		mg/L		107	90 - 110
Sulfate	10.0	10.28		mg/L		103	90 - 110

Lab Sample ID: LCSD 860-103280/40

Matrix: Water

Analysis Batch: 103280

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	10.12		mg/L		101	90 - 110	0	20
Chloride	10.0	10.17		mg/L		102	90 - 110	0	20
Fluoride	10.0	10.72		mg/L		107	90 - 110	0	20
Sulfate	10.0	10.27		mg/L		103	90 - 110	0	20

Lab Sample ID: LLCS 860-103280/7

Matrix: Water

Analysis Batch: 103280

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	0.4394	J	mg/L		88	50 - 150
Chloride	0.500	0.4596	J	mg/L		92	50 - 150
Fluoride	0.500	0.4994	J	mg/L		100	50 - 150
Sulfate	0.500	0.4524	J	mg/L		90	50 - 150

Eurofins Midland

QC Sample Results

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

Job ID: 880-28341-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-103061/1-A

Matrix: Water

Analysis Batch: 103084

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 103061

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		05/13/23 10:00	05/13/23 13:49	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		05/13/23 10:00	05/13/23 13:49	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		05/13/23 10:00	05/13/23 13:49	1
Sodium	<0.152	U	0.500	0.152 mg/L		05/13/23 10:00	05/13/23 13:49	1
SiO2	<0.471	U	1.07	0.471 mg/L		05/13/23 10:00	05/13/23 13:49	1

Lab Sample ID: LCS 860-103061/2-A

Matrix: Water

Analysis Batch: 103084

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 103061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.30		mg/L		97	85 - 115
Magnesium	25.0	23.90		mg/L		96	85 - 115
Potassium	10.0	9.460		mg/L		95	85 - 115
Sodium	25.0	23.50		mg/L		94	85 - 115
SiO2	21.4	20.93		mg/L		98	85 - 115

Lab Sample ID: LCSD 860-103061/3-A

Matrix: Water

Analysis Batch: 103084

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 103061

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.10		mg/L		96	85 - 115	1	20
Magnesium	25.0	23.60		mg/L		94	85 - 115	1	20
Potassium	10.0	9.390		mg/L		94	85 - 115	1	20
Sodium	25.0	23.20		mg/L		93	85 - 115	1	20
SiO2	21.4	20.80		mg/L		97	85 - 115	1	20

Lab Sample ID: LLCS 860-103061/4-A

Matrix: Water

Analysis Batch: 103084

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 103061

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2470		mg/L		124	50 - 150
Magnesium	0.200	0.2240		mg/L		112	50 - 150
Potassium	0.500	0.5890		mg/L		118	50 - 150
Sodium	0.500	0.5380		mg/L		108	50 - 150
SiO2	1.07	1.209		mg/L		113	50 - 150

Lab Sample ID: 880-28341-1 MS

Matrix: Water

Analysis Batch: 103084

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 103061

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	263	E	25.0	287.0	E 4	mg/L		96	70 - 130
Magnesium	51.7		25.0	77.00		mg/L		101	70 - 130
Potassium	4.41		10.0	15.20		mg/L		108	70 - 130
Sodium	82.0		25.0	107.0		mg/L		100	70 - 130
SiO2	67.4		21.4	90.31		mg/L		107	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-28341-1
SDG: Hobbs NM

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

Lab Sample ID: 880-28341-1 MSD

Matrix: Water

Analysis Batch: 103084

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 103061

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	263	E	25.0	287.0	E 4	mg/L		96	70 - 130	0	20
Magnesium	51.7		25.0	78.30		mg/L		106	70 - 130	2	20
Potassium	4.41		10.0	15.20		mg/L		108	70 - 130	0	20
Sodium	82.0		25.0	109.0		mg/L		108	70 - 130	2	20
SiO2	67.4		21.4	90.52		mg/L		108	70 - 130	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-103309/3

Matrix: Water

Analysis Batch: 103309

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			05/15/23 11:44	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/15/23 11:44	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/15/23 11:44	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			05/15/23 11:44	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			05/15/23 11:44	1

Lab Sample ID: LCS 860-103309/4

Matrix: Water

Analysis Batch: 103309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Alkalinity	250	230.6		mg/L		92	85 - 115

Lab Sample ID: LCSD 860-103309/5

Matrix: Water

Analysis Batch: 103309

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	235.8		mg/L		94	85 - 115	2	20

Lab Sample ID: 880-28341-1 DU

Matrix: Water

Analysis Batch: 103309

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Alkalinity	637		657.5		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	637		657.5		mg/L		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

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QC Sample Results

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

Job ID: 880-28341-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-103167/1

Matrix: Water

Analysis Batch: 103167

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			05/15/23 08:48	1

Lab Sample ID: LCS 860-103167/2

Matrix: Water

Analysis Batch: 103167

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	1000		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-103167/3

Matrix: Water

Analysis Batch: 103167

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	997.0		mg/L		100	80 - 120	0	10

Lab Sample ID: LLCS 860-103167/4

Matrix: Water

Analysis Batch: 103167

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		70	50 - 150

Lab Sample ID: 880-28341-1 DU

Matrix: Water

Analysis Batch: 103167

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1680		1602		mg/L		5	10

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-28341-1 DU

Matrix: Water

Analysis Batch: 103268

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.5	HF	6.5		SU		0.2	20
Temperature	13.7	HF	13.5		Degrees C		1	20

QC Association Summary

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

Job ID: 880-28341-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 102880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28341-1	Levey Well	Total/NA	Water	8260C	
MB 860-102880/17	Method Blank	Total/NA	Water	8260C	
LCS 860-102880/1011	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-102880/12	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 103246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-103246/3	Method Blank	Total/NA	Water	300.0	
LCS 860-103246/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-103246/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103246/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 103247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28341-1	Levey Well	Total/NA	Water	300.0	
MB 860-103247/3	Method Blank	Total/NA	Water	300.0	
LCS 860-103247/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-103247/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103247/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 103280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28341-1	Levey Well	Total/NA	Water	300.0	
MB 860-103280/3	Method Blank	Total/NA	Water	300.0	
MB 860-103280/38	Method Blank	Total/NA	Water	300.0	
LCS 860-103280/39	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-103280/40	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103280/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 103061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28341-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-103061/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-103061/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-103061/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-103061/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-28341-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-28341-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 103084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28341-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	103061
880-28341-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	103061
MB 860-103061/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	103061
LCS 860-103061/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	103061
LCSD 860-103061/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	103061
LLCS 860-103061/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	103061
880-28341-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	103061

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QC Association Summary

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

Job ID: 880-28341-1
SDG: Hobbs NM

Metals (Continued)

Analysis Batch: 103084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28341-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	103061

General Chemistry

Analysis Batch: 103167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28341-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-103167/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-103167/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-103167/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-103167/4	Lab Control Sample	Total/NA	Water	SM 2540C	
880-28341-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 103268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28341-1	Levey Well	Total/NA	Water	SM 4500 H+ B	
880-28341-1 DU	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 103309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28341-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-103309/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-103309/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-103309/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-28341-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 103442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28341-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-28341-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 05/11/23 11:45
Date Received: 05/11/23 15:52

Lab Sample ID: 880-28341-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	102880	NA	EET HOU	05/12/23 21:22
Total/NA	Analysis	300.0		1	103247	RBNS	EET HOU	05/13/23 17:16
Total/NA	Analysis	300.0		1	103280	WP	EET HOU	05/15/23 22:51
Total Recoverable	Prep	200.7			103061	MD	EET HOU	05/13/23 10:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	103084	JDM	EET HOU	05/13/23 13:59
Total Recoverable	Prep	200.7			103061	MD	EET HOU	05/13/23 10:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	103084	JDM	EET HOU	05/13/23 14:26
Total/NA	Analysis	SM 1030E		1	103442	SC	EET HOU	05/16/23 12:53
Total/NA	Analysis	SM 2320B		1	103309	TL	EET HOU	05/15/23 13:54
Total/NA	Analysis	SM 2540C		1	103167	DR	EET HOU	05/15/23 08:48
Total/NA	Analysis	SM 4500 H+ B		1	103268	TL	EET HOU	05/15/23 12:56

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

Accreditation/Certification Summary

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

Job ID: 880-28341-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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

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

Method Summary

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

Job ID: 880-28341-1
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: 880-28341-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28341-1	Levey Well	Water	05/11/23 11:45	05/11/23 15:52

- 1
- 2
- 3
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- 9
- 10
- 11
- 12
- 13
- 14

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

Chain of Custody Record



eurofins

Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PI:	Kramer Jessica	Carrier Tracking No(s):	SOC No:	880-6989 1
Client Contact		Phone:	E-Mail:	Jessica.Kramer@eurofins.com	State of Origin:	Page:	Page 1 of 1
Shipping/Receiving		Accreditations Required (See note):					
Company:		NELAP Texas					
Eurofins Environment Testing South Center		Job #:					
Address:		880-28341 1					
City:		Analysis Requested					
State:		M Hexane					
Zip:		N None					
TX, 77477		O AsNaO2					
Phone:		P Na2O4S					
281-240-4200(Tel)		Q Na2SO3					
Email:		R Na2SO4					
Project #:		S H2SO4					
88000024		T TSP Dodecahydrate					
Site:		U Acetone					
Levey Well Hobbs, NM 03B1417001		V MCAA					
SSOW#:		W pH 4-5					
		X EDTA					
		Y Trizma					
		Z other (specify)					
		Other					
		Preservation Codes:					
		A HCL					
		B NaOH					
		C Zn Acetate					
		D Nitric Acid					
		E NaHSO4					
		F MeOH					
		G Amchlor					
		H Ascorbic Acid					
		I Ice					
		J DI Water					
		K EDTA					
		L EDA					
		M Hexane					
		N None					
		O AsNaO2					
		P Na2O4S					
		Q Na2SO3					
		R Na2SO4					
		S H2SO4					
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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-28341-1

SDG Number: Hobbs NM

Login Number: 28341

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: 880-28341-1

SDG Number: Hobbs NM

Login Number: 28341

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 05/12/23 02:43 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.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/23/2023 11:54:09 AM

JOB DESCRIPTION

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

JOB NUMBER

880-28427-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

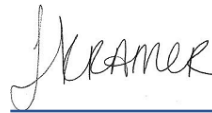
Eurofins Midland

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
5/23/2023 11:54:09 AM

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

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

Laboratory Job ID: 880-28427-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-28427-1
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
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	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 880-28427-1
SDG: Hobbs NM

Job ID: 880-28427-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-28427-1

Receipt

The sample was received on 5/15/2023 2:56 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 5.5°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-103355 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

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 860-103615 and analytical batch 860-103805 contained Sodium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 200.7: Due to the high concentration of Calcium and Sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-103615 and analytical batch 860-103805 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

General Chemistry

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

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Client Sample Results

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

Job ID: 880-28427-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-28427-1

Date Collected: 05/15/23 10:30

Matrix: Water

Date Received: 05/15/23 14:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00134		0.00100	0.000533 mg/L			05/16/23 16:05	1
Bromobenzene	<0.000665 U		0.00100	0.000665 mg/L			05/16/23 16:05	1
Bromochloromethane	<0.000657 U		0.00100	0.000657 mg/L			05/16/23 16:05	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			05/16/23 16:05	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			05/16/23 16:05	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			05/16/23 16:05	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			05/16/23 16:05	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			05/16/23 16:05	1
Chlorobenzene	<0.000530 U		0.00100	0.000530 mg/L			05/16/23 16:05	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			05/16/23 16:05	1
Chloroform	<0.000643 U		0.00100	0.000643 mg/L			05/16/23 16:05	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			05/16/23 16:05	1
2-Chlorotoluene	<0.00118 U		0.00200	0.00118 mg/L			05/16/23 16:05	1
4-Chlorotoluene	<0.000472 U		0.00100	0.000472 mg/L			05/16/23 16:05	1
cis-1,2-Dichloroethene	<0.000714 U		0.00100	0.000714 mg/L			05/16/23 16:05	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			05/16/23 16:05	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			05/16/23 16:05	1
1,2-Dibromo-3-Chloropropane	<0.00127 U		0.00500	0.00127 mg/L			05/16/23 16:05	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			05/16/23 16:05	1
1,2-Dichlorobenzene	<0.000509 U		0.00100	0.000509 mg/L			05/16/23 16:05	1
1,3-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			05/16/23 16:05	1
1,4-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			05/16/23 16:05	1
Dichlorodifluoromethane	<0.000919 U		0.00100	0.000919 mg/L			05/16/23 16:05	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			05/16/23 16:05	1
1,2-Dichloroethane	<0.000590 U		0.00100	0.000590 mg/L			05/16/23 16:05	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			05/16/23 16:05	1
1,2-Dichloropropane	<0.000667 U		0.00500	0.000667 mg/L			05/16/23 16:05	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			05/16/23 16:05	1
2,2-Dichloropropane	<0.000780 U		0.00500	0.000780 mg/L			05/16/23 16:05	1
1,1-Dichloropropene	<0.00160 U		0.00500	0.00160 mg/L			05/16/23 16:05	1
Ethylbenzene	0.00492		0.00100	0.000411 mg/L			05/16/23 16:05	1
Hexachlorobutadiene	<0.00126 U		0.00500	0.00126 mg/L			05/16/23 16:05	1
Isopropylbenzene	0.00285		0.00100	0.000613 mg/L			05/16/23 16:05	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			05/16/23 16:05	1
m,p-Xylenes	0.0190		0.0100	0.00124 mg/L			05/16/23 16:05	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			05/16/23 16:05	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			05/16/23 16:05	1
n-Butylbenzene	<0.000644 U		0.00100	0.000644 mg/L			05/16/23 16:05	1
N-Propylbenzene	0.00106		0.00100	0.000498 mg/L			05/16/23 16:05	1
o-Xylene	0.00275		0.00100	0.000551 mg/L			05/16/23 16:05	1
p-Cymene (p-Isopropyltoluene)	<0.000919 U		0.00100	0.000919 mg/L			05/16/23 16:05	1
sec-Butylbenzene	<0.000468 U		0.00100	0.000468 mg/L			05/16/23 16:05	1
Styrene	<0.000655 U		0.00100	0.000655 mg/L			05/16/23 16:05	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			05/16/23 16:05	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			05/16/23 16:05	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			05/16/23 16:05	1
Tetrachloroethene	<0.000801 U		0.00100	0.000801 mg/L			05/16/23 16:05	1
Toluene	0.00949		0.00100	0.000475 mg/L			05/16/23 16:05	1
trans-1,2-Dichloroethene	<0.000945 U		0.00100	0.000945 mg/L			05/16/23 16:05	1

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Client Sample Results

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

Job ID: 880-28427-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-28427-1

Date Collected: 05/15/23 10:30

Matrix: Water

Date Received: 05/15/23 14:56

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			05/16/23 16:05	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/16/23 16:05	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/16/23 16:05	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/16/23 16:05	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/16/23 16:05	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/16/23 16:05	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/16/23 16:05	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/16/23 16:05	1
1,2,4-Trimethylbenzene	0.00436		0.00100	0.000417 mg/L			05/16/23 16:05	1
1,3,5-Trimethylbenzene	0.00129		0.00100	0.000456 mg/L			05/16/23 16:05	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/16/23 16:05	1
Xylenes, Total	0.0218		0.0100	0.00124 mg/L			05/16/23 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		74 - 124		05/16/23 16:05	1
Dibromofluoromethane (Surr)	89		75 - 131		05/16/23 16:05	1
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/16/23 16:05	1
Toluene-d8 (Surr)	96		80 - 117		05/16/23 16:05	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.326	J	0.500	0.0711 mg/L			05/17/23 00:04	1
Nitrate as N	0.243		0.100	0.0391 mg/L			05/17/23 00:04	1
Chloride	214		0.500	0.250 mg/L			05/17/23 00:04	1
Nitrite as N	0.793		0.100	0.0293 mg/L			05/17/23 00:04	1
Fluoride	0.789		0.500	0.100 mg/L			05/17/23 00:04	1
Sulfate	47.8		0.500	0.200 mg/L			05/17/23 00:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	202		10.0	5.76 mg/L		05/17/23 10:30	05/17/23 17:21	50
Magnesium	41.3		0.200	0.0428 mg/L		05/17/23 10:30	05/17/23 17:00	1
Potassium	3.26		0.500	0.0914 mg/L		05/17/23 10:30	05/17/23 17:00	1
Sodium	67.1	B	0.500	0.152 mg/L		05/17/23 10:30	05/17/23 17:00	1
SiO2	51.8		1.07	0.471 mg/L		05/17/23 10:30	05/17/23 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-9.15			%			05/23/23 12:37	1
Alkalinity (SM 2320B)	547		4.00	4.00 mg/L			05/17/23 14:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	547		4.00	4.00 mg/L			05/17/23 14:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/17/23 14:58	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/17/23 14:58	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/17/23 14:58	1
Total Dissolved Solids (SM 2540C)	1320		10.0	10.0 mg/L			05/18/23 09:20	1
pH (SM 4500 H+ B)	6.5	HF		SU			05/17/23 13:09	1
Temperature (SM 4500 H+ B)	16.0	HF		Degrees C			05/17/23 13:09	1

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Surrogate Summary

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

Job ID: 880-28427-1
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 (80-117)
880-28427-1	Levey Well	90	89	98	96
LCS 860-103355/3	Lab Control Sample	88	91	99	99
LCSD 860-103355/4	Lab Control Sample Dup	91	94	103	95
MB 860-103355/9	Method Blank	102	95	93	104
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-28427-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-103355/9

Matrix: Water

Analysis Batch: 103355

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			05/16/23 10:37	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/16/23 10:37	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/16/23 10:37	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/16/23 10:37	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/16/23 10:37	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/16/23 10:37	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/16/23 10:37	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/16/23 10:37	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/16/23 10:37	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/16/23 10:37	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/16/23 10:37	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/16/23 10:37	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/16/23 10:37	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/16/23 10:37	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/16/23 10:37	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/16/23 10:37	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/16/23 10:37	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/16/23 10:37	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/16/23 10:37	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/16/23 10:37	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/16/23 10:37	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/16/23 10:37	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/16/23 10:37	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/16/23 10:37	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/16/23 10:37	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/16/23 10:37	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/16/23 10:37	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/16/23 10:37	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/16/23 10:37	1
1,1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/16/23 10:37	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			05/16/23 10:37	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/16/23 10:37	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			05/16/23 10:37	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/16/23 10:37	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			05/16/23 10:37	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/16/23 10:37	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/16/23 10:37	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/16/23 10:37	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			05/16/23 10:37	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			05/16/23 10:37	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/16/23 10:37	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/16/23 10:37	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/16/23 10:37	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/16/23 10:37	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/16/23 10:37	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/16/23 10:37	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/16/23 10:37	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/16/23 10:37	1

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QC Sample Results

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

Job ID: 880-28427-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-103355/9

Matrix: Water

Analysis Batch: 103355

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/16/23 10:37	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			05/16/23 10:37	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/16/23 10:37	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/16/23 10:37	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/16/23 10:37	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/16/23 10:37	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/16/23 10:37	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/16/23 10:37	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/16/23 10:37	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			05/16/23 10:37	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			05/16/23 10:37	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/16/23 10:37	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			05/16/23 10:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		05/16/23 10:37	1
Dibromofluoromethane (Surr)	95		75 - 131		05/16/23 10:37	1
1,2-Dichloroethane-d4 (Surr)	93		63 - 144		05/16/23 10:37	1
Toluene-d8 (Surr)	104		80 - 117		05/16/23 10:37	1

Lab Sample ID: LCS 860-103355/3

Matrix: Water

Analysis Batch: 103355

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	0.04859		mg/L		97	75 - 125
Bromobenzene	0.0500	0.05337		mg/L		107	75 - 125
Bromochloromethane	0.0500	0.05122		mg/L		102	60 - 140
Bromodichloromethane	0.0500	0.05464		mg/L		109	75 - 125
Bromoform	0.0500	0.06338		mg/L		127	70 - 130
Bromomethane	0.0500	0.05268		mg/L		105	60 - 140
2-Butanone	0.250	0.2468		mg/L		99	60 - 140
Carbon tetrachloride	0.0500	0.04928		mg/L		99	70 - 130
Chlorobenzene	0.0500	0.05358		mg/L		107	65 - 135
Chloroethane	0.0500	0.05087		mg/L		102	60 - 140
Chloroform	0.0500	0.05169		mg/L		103	70 - 121
Chloromethane	0.0500	0.03429		mg/L		69	60 - 140
2-Chlorotoluene	0.0500	0.04328		mg/L		87	73 - 125
4-Chlorotoluene	0.0500	0.04890		mg/L		98	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04639		mg/L		93	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05190		mg/L		104	74 - 125
Dibromochloromethane	0.0500	0.05667		mg/L		113	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05210		mg/L		104	59 - 125
1,2-Dibromoethane	0.0500	0.05623		mg/L		112	73 - 125
1,2-Dichlorobenzene	0.0500	0.05387		mg/L		108	75 - 125
1,3-Dichlorobenzene	0.0500	0.05360		mg/L		107	75 - 125
1,4-Dichlorobenzene	0.0500	0.05115		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.04207		mg/L		84	50 - 150

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QC Sample Results

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

Job ID: 880-28427-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-103355/3

Matrix: Water

Analysis Batch: 103355

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	0.04487		mg/L		90	70 - 130
1,2-Dichloroethane	0.0500	0.05708		mg/L		114	72 - 130
1,1-Dichloroethene	0.0500	0.05097		mg/L		102	50 - 150
1,2-Dichloropropane	0.0500	0.04786		mg/L		96	74 - 125
1,3-Dichloropropane	0.0500	0.05335		mg/L		107	75 - 125
2,2-Dichloropropane	0.0500	0.05110		mg/L		102	75 - 125
1,1-Dichloropropene	0.0500	0.04551		mg/L		91	75 - 125
Ethylbenzene	0.0500	0.05058		mg/L		101	75 - 125
Hexachlorobutadiene	0.0500	0.04990		mg/L		100	75 - 125
Isopropylbenzene	0.0500	0.05449		mg/L		109	75 - 125
Methylene Chloride	0.0500	0.05028		mg/L		101	71 - 125
m,p-Xylenes	0.0500	0.05527		mg/L		111	75 - 125
MTBE	0.0500	0.05187		mg/L		104	65 - 135
Naphthalene	0.0500	0.05175		mg/L		104	70 - 130
n-Butylbenzene	0.0500	0.04633		mg/L		93	75 - 125
N-Propylbenzene	0.0500	0.04515		mg/L		90	75 - 125
o-Xylene	0.0500	0.05348		mg/L		107	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04923		mg/L		98	75 - 125
sec-Butylbenzene	0.0500	0.04716		mg/L		94	75 - 125
Styrene	0.0500	0.05663		mg/L		113	75 - 125
tert-Butylbenzene	0.0500	0.04695		mg/L		94	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05539		mg/L		111	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04802		mg/L		96	74 - 125
Tetrachloroethene	0.0500	0.05508		mg/L		110	71 - 125
Toluene	0.0500	0.04835		mg/L		97	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04783		mg/L		96	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05322		mg/L		106	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05076		mg/L		102	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05309		mg/L		106	75 - 135
1,1,1-Trichloroethane	0.0500	0.04979		mg/L		100	70 - 130
1,1,2-Trichloroethane	0.0500	0.05150		mg/L		103	70 - 130
Trichloroethene	0.0500	0.05389		mg/L		108	75 - 135
Trichlorofluoromethane	0.0500	0.05142		mg/L		103	60 - 140
1,2,3-Trichloropropane	0.0500	0.04573		mg/L		91	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04839		mg/L		97	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04955		mg/L		99	60 - 140
Vinyl chloride	0.0500	0.04409		mg/L		88	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		74 - 124
Dibromofluoromethane (Surr)	91		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	99		80 - 117

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QC Sample Results

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

Job ID: 880-28427-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-103355/4

Matrix: Water

Analysis Batch: 103355

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	0.04907		mg/L		98	75 - 125	1	25
Bromobenzene	0.0500	0.05282		mg/L		106	75 - 125	1	25
Bromochloromethane	0.0500	0.05308		mg/L		106	60 - 140	4	25
Bromodichloromethane	0.0500	0.05345		mg/L		107	75 - 125	2	25
Bromoform	0.0500	0.06345		mg/L		127	70 - 130	0	25
Bromomethane	0.0500	0.05125		mg/L		103	60 - 140	3	25
2-Butanone	0.250	0.2624		mg/L		105	60 - 140	6	25
Carbon tetrachloride	0.0500	0.05189		mg/L		104	70 - 130	5	25
Chlorobenzene	0.0500	0.05387		mg/L		108	65 - 135	1	25
Chloroethane	0.0500	0.05398		mg/L		108	60 - 140	6	25
Chloroform	0.0500	0.05165		mg/L		103	70 - 121	0	25
Chloromethane	0.0500	0.03608		mg/L		72	60 - 140	5	25
2-Chlorotoluene	0.0500	0.05119		mg/L		102	73 - 125	17	25
4-Chlorotoluene	0.0500	0.05001		mg/L		100	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.04689		mg/L		94	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.05186		mg/L		104	74 - 125	0	25
Dibromochloromethane	0.0500	0.05782		mg/L		116	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05153		mg/L		103	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.05642		mg/L		113	73 - 125	0	25
1,2-Dichlorobenzene	0.0500	0.05448		mg/L		109	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.05365		mg/L		107	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.05493		mg/L		110	75 - 125	7	25
Dichlorodifluoromethane	0.0500	0.04491		mg/L		90	50 - 150	7	25
1,1-Dichloroethane	0.0500	0.04658		mg/L		93	70 - 130	4	25
1,2-Dichloroethane	0.0500	0.05530		mg/L		111	72 - 130	3	25
1,1-Dichloroethene	0.0500	0.05636		mg/L		113	50 - 150	10	25
1,2-Dichloropropane	0.0500	0.04987		mg/L		100	74 - 125	4	25
1,3-Dichloropropane	0.0500	0.05201		mg/L		104	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05361		mg/L		107	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.04833		mg/L		97	75 - 125	6	25
Ethylbenzene	0.0500	0.05156		mg/L		103	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.05275		mg/L		105	75 - 125	6	25
Isopropylbenzene	0.0500	0.05644		mg/L		113	75 - 125	4	25
Methylene Chloride	0.0500	0.05355		mg/L		107	71 - 125	6	25
m,p-Xylenes	0.0500	0.05561		mg/L		111	75 - 125	1	25
MTBE	0.0500	0.05351		mg/L		107	65 - 135	3	25
Naphthalene	0.0500	0.05403		mg/L		108	70 - 130	4	25
n-Butylbenzene	0.0500	0.04938		mg/L		99	75 - 125	6	25
N-Propylbenzene	0.0500	0.04783		mg/L		96	75 - 125	6	25
o-Xylene	0.0500	0.05480		mg/L		110	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05112		mg/L		102	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05061		mg/L		101	75 - 125	7	25
Styrene	0.0500	0.05495		mg/L		110	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04961		mg/L		99	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.05852		mg/L		117	72 - 125	5	25
1,1,2,2-Tetrachloroethane	0.0500	0.05008		mg/L		100	74 - 125	4	25
Tetrachloroethene	0.0500	0.05400		mg/L		108	71 - 125	2	25
Toluene	0.0500	0.04851		mg/L		97	70 - 130	0	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-28427-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-103355/4

Matrix: Water

Analysis Batch: 103355

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	0.04690		mg/L		94	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.05255		mg/L		105	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.05263		mg/L		105	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.05418		mg/L		108	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05099		mg/L		102	70 - 130	2	25
1,1,2-Trichloroethane	0.0500	0.05202		mg/L		104	70 - 130	1	25
Trichloroethene	0.0500	0.05502		mg/L		110	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.05047		mg/L		101	60 - 140	2	25
1,2,3-Trichloropropane	0.0500	0.04852		mg/L		97	75 - 125	6	25
1,2,4-Trimethylbenzene	0.0500	0.05058		mg/L		101	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.05235		mg/L		105	60 - 140	5	25
Vinyl chloride	0.0500	0.04648		mg/L		93	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	91		74 - 124
Dibromofluoromethane (Surr)	94		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	95		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-103456/3

Matrix: Water

Analysis Batch: 103456

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			05/16/23 14:26	1
Chloride	<0.250	U	0.500	0.250 mg/L			05/16/23 14:26	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/16/23 14:26	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/16/23 14:26	1

Lab Sample ID: LCS 860-103456/4

Matrix: Water

Analysis Batch: 103456

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	9.900		mg/L		99	90 - 110
Chloride	10.0	10.05		mg/L		101	90 - 110
Fluoride	10.0	10.46		mg/L		105	90 - 110
Sulfate	10.0	10.13		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-103456/5

Matrix: Water

Analysis Batch: 103456

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	9.903		mg/L		99	90 - 110	0	20
Chloride	10.0	10.05		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.50		mg/L		105	90 - 110	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-28427-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-103456/5

Matrix: Water

Analysis Batch: 103456

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	10.11		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-103456/7

Matrix: Water

Analysis Batch: 103456

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	0.4339	J	mg/L		87	50 - 150
Chloride	0.500	0.4441	J	mg/L		89	50 - 150
Fluoride	0.500	0.4397	J	mg/L		88	50 - 150
Sulfate	0.500	0.4488	J	mg/L		90	50 - 150

Lab Sample ID: MB 860-103457/3

Matrix: Water

Analysis Batch: 103457

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			05/16/23 14:26	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/16/23 14:26	1

Lab Sample ID: LCS 860-103457/4

Matrix: Water

Analysis Batch: 103457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	10.22		mg/L		102	80 - 120
Nitrite as N	10.0	10.05		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-103457/5

Matrix: Water

Analysis Batch: 103457

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	10.22		mg/L		102	80 - 120	0	20
Nitrite as N	10.0	10.05		mg/L		100	80 - 120	0	20

Lab Sample ID: LLCS 860-103457/6

Matrix: Water

Analysis Batch: 103457

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	0.1000		mg/L		100	50 - 150
Nitrite as N	0.100	0.1143		mg/L		114	50 - 150

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QC Sample Results

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

Job ID: 880-28427-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-103615/1-A
Matrix: Water
Analysis Batch: 103805

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 103615

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		05/17/23 10:30	05/17/23 16:20	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		05/17/23 10:30	05/17/23 16:20	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		05/17/23 10:30	05/17/23 16:20	1
Sodium	0.2860	J	0.500	0.152 mg/L		05/17/23 10:30	05/17/23 16:20	1
SiO2	<0.471	U	1.07	0.471 mg/L		05/17/23 10:30	05/17/23 16:20	1

Lab Sample ID: LCS 860-103615/2-A
Matrix: Water
Analysis Batch: 103805

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 103615

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.60		mg/L		98	85 - 115
Magnesium	25.0	24.20		mg/L		97	85 - 115
Potassium	10.0	9.610		mg/L		96	85 - 115
Sodium	25.0	24.50		mg/L		98	85 - 115
SiO2	21.4	20.48		mg/L		96	85 - 115

Lab Sample ID: LCSD 860-103615/3-A
Matrix: Water
Analysis Batch: 103805

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 103615

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.40		mg/L		98	85 - 115	1	20
Magnesium	25.0	24.00		mg/L		96	85 - 115	1	20
Potassium	10.0	9.520		mg/L		95	85 - 115	1	20
Sodium	25.0	24.20		mg/L		97	85 - 115	1	20
SiO2	21.4	20.44		mg/L		96	85 - 115	0	20

Lab Sample ID: LLCS 860-103615/4-A
Matrix: Water
Analysis Batch: 103805

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 103615

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2280		mg/L		114	50 - 150
Magnesium	0.200	0.2420		mg/L		121	50 - 150
Potassium	0.500	0.5710		mg/L		114	50 - 150
Sodium	0.500	0.8670		mg/L		173	50 - 150
SiO2	1.07	1.186		mg/L		111	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-103721/3
Matrix: Water
Analysis Batch: 103721

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			05/17/23 11:19	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/17/23 11:19	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/17/23 11:19	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			05/17/23 11:19	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-28427-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-103721/3

Matrix: Water

Analysis Batch: 103721

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			05/17/23 11:19	1

Lab Sample ID: LCS 860-103721/4

Matrix: Water

Analysis Batch: 103721

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	240.0		mg/L		96	85 - 115

Lab Sample ID: LCSD 860-103721/5

Matrix: Water

Analysis Batch: 103721

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	240.6		mg/L		96	85 - 115	0	20

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

Lab Sample ID: MB 860-103802/1

Matrix: Water

Analysis Batch: 103802

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			05/18/23 09:20	1

Lab Sample ID: LCS 860-103802/2

Matrix: Water

Analysis Batch: 103802

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	1001		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-103802/3

Matrix: Water

Analysis Batch: 103802

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	1002		mg/L		100	80 - 120	0	10

Lab Sample ID: LLCS 860-103802/4

Matrix: Water

Analysis Batch: 103802

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	5.500		mg/L		110	50 - 150

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QC Sample Results

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

Job ID: 880-28427-1
SDG: Hobbs NM

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-28427-1 DU					Client Sample ID: Levey Well				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 103698									
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit	
pH	6.5	HF	6.5		SU		0.2	20	
Temperature	16.0	HF	15.8		Degrees C		1	20	

QC Association Summary

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

Job ID: 880-28427-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 103355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28427-1	Levey Well	Total/NA	Water	8260C	
MB 860-103355/9	Method Blank	Total/NA	Water	8260C	
LCS 860-103355/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-103355/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 103456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28427-1	Levey Well	Total/NA	Water	300.0	
MB 860-103456/3	Method Blank	Total/NA	Water	300.0	
LCS 860-103456/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-103456/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103456/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 103457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28427-1	Levey Well	Total/NA	Water	300.0	
MB 860-103457/3	Method Blank	Total/NA	Water	300.0	
LCS 860-103457/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-103457/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103457/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 103615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28427-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-103615/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-103615/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-103615/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-103615/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 103805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28427-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	103615
880-28427-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	103615
MB 860-103615/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	103615
LCS 860-103615/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	103615
LCSD 860-103615/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	103615
LLCS 860-103615/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	103615

General Chemistry

Analysis Batch: 103698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28427-1	Levey Well	Total/NA	Water	SM 4500 H+ B	
880-28427-1 DU	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 103721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28427-1	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: 880-28427-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 103721 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-103721/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-103721/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-103721/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 103802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28427-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-103802/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-103802/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-103802/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-103802/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 104468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28427-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-28427-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-28427-1
Date Collected: 05/15/23 10:30 Matrix: Water
Date Received: 05/15/23 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	103355	NA	EET HOU	05/16/23 16:05
Total/NA	Analysis	300.0		1	103456	WP	EET HOU	05/17/23 00:04
Total/NA	Analysis	300.0		1	103457	WP	EET HOU	05/17/23 00:04
Total Recoverable	Prep	200.7			103615	MD	EET HOU	05/17/23 10:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	103805	JDM	EET HOU	05/17/23 17:00
Total Recoverable	Prep	200.7			103615	MD	EET HOU	05/17/23 10:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	103805	JDM	EET HOU	05/17/23 17:21
Total/NA	Analysis	SM 1030E		1	104468	SC	EET HOU	05/23/23 12:37
Total/NA	Analysis	SM 2320B		1	103721	TL	EET HOU	05/17/23 14:58
Total/NA	Analysis	SM 2540C		1	103802	DR	EET HOU	05/18/23 09:20
Total/NA	Analysis	SM 4500 H+ B		1	103698	TL	EET HOU	05/17/23 13:09

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: 880-28427-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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: 880-28427-1
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: 880-28427-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28427-1	Levey Well	Water	05/15/23 10:30	05/15/23 14:56

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) El Paso TX (915)585-3443 Lubbock TX (806)794-1296
Albuquerque NM (505-392-7550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813)

Work Order No: 78427

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-28427-1

SDG Number: Hobbs NM

Login Number: 28427

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: 880-28427-1

SDG Number: Hobbs NM

Login Number: 28427

List Number: 2

Creator: Canadilla, Surelis

List Source: Eurofins Houston

List Creation: 05/16/23 01:18 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 6/2/2023 7:42:35 AM

JOB DESCRIPTION

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

JOB NUMBER

880-28808-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



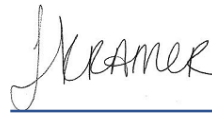
Eurofins Midland

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
6/2/2023 7:42:35 AM

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

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

Laboratory Job ID: 880-28808-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-28808-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
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.

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Definitions/Glossary

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

Job ID: 880-28808-1
SDG: Hobbs NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

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

Job ID: 880-28808-1
SDG: Hobbs NM

Job ID: 880-28808-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-28808-1**

Receipt

The sample was received on 5/25/2023 2:42 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 12.4°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-105169 recovered above the upper control limit for 2,2-Dichloropropane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-105169/2).

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-105169 recovered outside control limits for the following analytes Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: Due to the high concentration of targets, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-105169 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-105111 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFMS: The method blank for analytical batch 860-105392 contained Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_ORGFMS: Reanalysis of the following sample was performed outside of the analytical holding time due to <EXPLANATION_REQUIRED> : Levey Well (880-28808-1).

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

Metals

Method 200.7: Due to the high concentration of Calcium and Sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-105246 and analytical batch 860-105387 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

General Chemistry

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

Client Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-28808-1

Date Collected: 05/25/23 10:15

Matrix: Water

Date Received: 05/25/23 14:42

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00161		0.00100	0.000533	mg/L		05/27/23 14:23	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		05/27/23 14:23	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		05/27/23 14:23	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		05/27/23 14:23	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		05/27/23 14:23	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		05/27/23 14:23	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		05/27/23 14:23	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		05/27/23 14:23	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		05/27/23 14:23	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		05/27/23 14:23	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		05/27/23 14:23	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		05/27/23 14:23	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		05/27/23 14:23	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		05/27/23 14:23	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		05/27/23 14:23	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		05/27/23 14:23	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		05/27/23 14:23	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		05/27/23 14:23	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		05/27/23 14:23	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		05/27/23 14:23	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		05/27/23 14:23	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		05/27/23 14:23	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		05/27/23 14:23	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		05/27/23 14:23	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		05/27/23 14:23	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		05/27/23 14:23	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		05/27/23 14:23	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		05/27/23 14:23	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		05/27/23 14:23	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		05/27/23 14:23	1
Ethylbenzene	0.00570		0.00100	0.000411	mg/L		05/27/23 14:23	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		05/27/23 14:23	1
Isopropylbenzene	0.00267		0.00100	0.000613	mg/L		05/27/23 14:23	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		05/27/23 14:23	1
m,p-Xylenes	0.0211	F1	0.0100	0.00124	mg/L		05/27/23 14:23	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		05/27/23 14:23	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		05/27/23 14:23	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		05/27/23 14:23	1
N-Propylbenzene	0.00127		0.00100	0.000498	mg/L		05/27/23 14:23	1
o-Xylene	0.00323		0.00100	0.000551	mg/L		05/27/23 14:23	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		05/27/23 14:23	1
sec-Butylbenzene	0.000561	J	0.00100	0.000468	mg/L		05/27/23 14:23	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		05/27/23 14:23	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		05/27/23 14:23	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		05/27/23 14:23	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		05/27/23 14:23	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		05/27/23 14:23	1
Toluene	0.0113		0.00100	0.000475	mg/L		05/27/23 14:23	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		05/27/23 14:23	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-28808-1

Date Collected: 05/25/23 10:15

Matrix: Water

Date Received: 05/25/23 14:42

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			05/27/23 14:23	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/27/23 14:23	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/27/23 14:23	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/27/23 14:23	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/27/23 14:23	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/27/23 14:23	1
Trichlorofluoromethane	<0.000638	U *	0.00100	0.000638 mg/L			05/27/23 14:23	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/27/23 14:23	1
1,2,4-Trimethylbenzene	0.00441		0.00100	0.000417 mg/L			05/27/23 14:23	1
1,3,5-Trimethylbenzene	0.00141		0.00100	0.000456 mg/L			05/27/23 14:23	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/27/23 14:23	1
Xylenes, Total	0.0243		0.0100	0.00124 mg/L			05/27/23 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		05/27/23 14:23	1
Dibromofluoromethane (Surr)	93		75 - 131		05/27/23 14:23	1
1,2-Dichloroethane-d4 (Surr)	93		63 - 144		05/27/23 14:23	1
Toluene-d8 (Surr)	98		80 - 120		05/27/23 14:23	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.348	J	0.500	0.0711 mg/L			05/27/23 01:17	1
Nitrate as N	0.0603	J	0.100	0.0391 mg/L			05/27/23 01:17	1
Chloride	217		0.500	0.250 mg/L			05/27/23 01:17	1
Nitrite as N	0.691		0.100	0.0293 mg/L			05/27/23 01:17	1
Fluoride	0.617		0.500	0.100 mg/L			05/27/23 01:17	1
Sulfate	46.8		0.500	0.200 mg/L			05/27/23 01:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	259		10.0	5.76 mg/L		05/29/23 13:25	05/30/23 11:01	50
Magnesium	48.8		0.200	0.0428 mg/L		05/29/23 13:25	05/30/23 10:47	1
Potassium	4.21		0.500	0.0914 mg/L		05/29/23 13:25	05/30/23 10:47	1
Sodium	77.4		0.500	0.152 mg/L		05/29/23 13:25	05/30/23 10:47	1
SiO2	64.0		1.07	0.471 mg/L		05/29/23 13:25	05/30/23 10:47	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-6.47			%			05/29/23 12:37	1
Alkalinity (SM 2320B)	697		4.00	4.00 mg/L			05/29/23 14:59	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	697		4.00	4.00 mg/L			05/29/23 14:59	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/29/23 14:59	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/29/23 14:59	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/29/23 14:59	1
Total Dissolved Solids (SM 2540C)	1310		10.0	10.0 mg/L			05/31/23 10:50	1
pH (SM 4500 H+ B)	6.5	HF		SU			06/01/23 14:54	1
Temperature (SM 4500 H+ B)	17.4	HF		Degrees C			06/01/23 14:54	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-28808-1
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)
880-28808-1	Levey Well	100	93	93	98
880-28808-1 MS	Levey Well	91	88	109	97
LCS 860-105169/3	Lab Control Sample	87	96	102	100
LCSD 860-105169/4	Lab Control Sample Dup	88	92	105	100
MB 860-105169/10	Method Blank	102	99	101	105
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: 880-28808-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-105169/10

Matrix: Water

Analysis Batch: 105169

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			05/27/23 13:21	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/27/23 13:21	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/27/23 13:21	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/27/23 13:21	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/27/23 13:21	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/27/23 13:21	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/27/23 13:21	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/27/23 13:21	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/27/23 13:21	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/27/23 13:21	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/27/23 13:21	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/27/23 13:21	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/27/23 13:21	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/27/23 13:21	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/27/23 13:21	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/27/23 13:21	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/27/23 13:21	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/27/23 13:21	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/27/23 13:21	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/27/23 13:21	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/27/23 13:21	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/27/23 13:21	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/27/23 13:21	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/27/23 13:21	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/27/23 13:21	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/27/23 13:21	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/27/23 13:21	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/27/23 13:21	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/27/23 13:21	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/27/23 13:21	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			05/27/23 13:21	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/27/23 13:21	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			05/27/23 13:21	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/27/23 13:21	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			05/27/23 13:21	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/27/23 13:21	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/27/23 13:21	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/27/23 13:21	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			05/27/23 13:21	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			05/27/23 13:21	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/27/23 13:21	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/27/23 13:21	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/27/23 13:21	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/27/23 13:21	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/27/23 13:21	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/27/23 13:21	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/27/23 13:21	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/27/23 13:21	1

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QC Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-105169/10

Matrix: Water

Analysis Batch: 105169

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/27/23 13:21	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			05/27/23 13:21	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/27/23 13:21	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/27/23 13:21	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/27/23 13:21	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/27/23 13:21	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/27/23 13:21	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/27/23 13:21	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/27/23 13:21	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			05/27/23 13:21	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			05/27/23 13:21	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/27/23 13:21	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			05/27/23 13:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		05/27/23 13:21	1
Dibromofluoromethane (Surr)	99		75 - 131		05/27/23 13:21	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/27/23 13:21	1
Toluene-d8 (Surr)	105		80 - 120		05/27/23 13:21	1

Lab Sample ID: LCS 860-105169/3

Matrix: Water

Analysis Batch: 105169

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	0.04823		mg/L		96	75 - 125
Bromobenzene	0.0500	0.04669		mg/L		93	75 - 125
Bromochloromethane	0.0500	0.04816		mg/L		96	60 - 140
Bromodichloromethane	0.0500	0.04748		mg/L		95	75 - 125
Bromoform	0.0500	0.04615		mg/L		92	70 - 130
Bromomethane	0.0500	0.04677		mg/L		94	60 - 140
2-Butanone	0.250	0.2023		mg/L		81	60 - 140
Carbon tetrachloride	0.0500	0.04802		mg/L		96	70 - 130
Chlorobenzene	0.0500	0.04656		mg/L		93	65 - 135
Chloroethane	0.0500	0.04807		mg/L		96	60 - 140
Chloroform	0.0500	0.04669		mg/L		93	70 - 121
Chloromethane	0.0500	0.03588		mg/L		72	60 - 140
2-Chlorotoluene	0.0500	0.03865		mg/L		77	73 - 125
4-Chlorotoluene	0.0500	0.04374		mg/L		87	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04297		mg/L		86	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04476		mg/L		90	74 - 125
Dibromochloromethane	0.0500	0.04384		mg/L		88	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.03671		mg/L		73	59 - 125
1,2-Dibromoethane	0.0500	0.04196		mg/L		84	73 - 125
1,2-Dichlorobenzene	0.0500	0.04805		mg/L		96	75 - 125
1,3-Dichlorobenzene	0.0500	0.04560		mg/L		91	75 - 125
1,4-Dichlorobenzene	0.0500	0.04695		mg/L		94	75 - 125
Dichlorodifluoromethane	0.0500	0.04527		mg/L		91	50 - 150

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QC Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-105169/3

Matrix: Water

Analysis Batch: 105169

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	0.04173		mg/L		83	70 - 130
1,2-Dichloroethane	0.0500	0.04754		mg/L		95	72 - 130
1,1-Dichloroethene	0.0500	0.04413		mg/L		88	50 - 150
1,2-Dichloropropane	0.0500	0.04683		mg/L		94	74 - 125
1,3-Dichloropropane	0.0500	0.04639		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.05325		mg/L		106	75 - 125
1,1-Dichloropropene	0.0500	0.04783		mg/L		96	75 - 125
Ethylbenzene	0.0500	0.04824		mg/L		96	75 - 125
Hexachlorobutadiene	0.0500	0.04718		mg/L		94	75 - 125
Isopropylbenzene	0.0500	0.04794		mg/L		96	75 - 125
Methylene Chloride	0.0500	0.03849		mg/L		77	71 - 125
m,p-Xylenes	0.0500	0.04955		mg/L		99	75 - 125
MTBE	0.0500	0.04322		mg/L		86	65 - 135
Naphthalene	0.0500	0.04063		mg/L		81	70 - 130
n-Butylbenzene	0.0500	0.04669		mg/L		93	75 - 125
N-Propylbenzene	0.0500	0.04314		mg/L		86	75 - 125
o-Xylene	0.0500	0.04586		mg/L		92	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04742		mg/L		95	75 - 125
sec-Butylbenzene	0.0500	0.04587		mg/L		92	75 - 125
Styrene	0.0500	0.04649		mg/L		93	75 - 125
tert-Butylbenzene	0.0500	0.04741		mg/L		95	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04611		mg/L		92	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.03771		mg/L		75	74 - 125
Tetrachloroethene	0.0500	0.05304		mg/L		106	71 - 125
Toluene	0.0500	0.04967		mg/L		99	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04304		mg/L		86	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04817		mg/L		96	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04288		mg/L		86	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04583		mg/L		92	75 - 135
1,1,1-Trichloroethane	0.0500	0.04867		mg/L		97	70 - 130
1,1,2-Trichloroethane	0.0500	0.04629		mg/L		93	70 - 130
Trichloroethene	0.0500	0.04616		mg/L		92	75 - 135
Trichlorofluoromethane	0.0500	0.07147	*+	mg/L		143	60 - 140
1,2,3-Trichloropropane	0.0500	0.03961		mg/L		79	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04460		mg/L		89	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04408		mg/L		88	60 - 140
Vinyl chloride	0.0500	0.03660		mg/L		73	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		74 - 124
Dibromofluoromethane (Surr)	96		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		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: 880-28808-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-105169/4

Matrix: Water

Analysis Batch: 105169

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	0.05176		mg/L		104	75 - 125	7	25
Bromobenzene	0.0500	0.04866		mg/L		97	75 - 125	4	25
Bromochloromethane	0.0500	0.05160		mg/L		103	60 - 140	7	25
Bromodichloromethane	0.0500	0.05162		mg/L		103	75 - 125	8	25
Bromoform	0.0500	0.05097		mg/L		102	70 - 130	10	25
Bromomethane	0.0500	0.05125		mg/L		103	60 - 140	9	25
2-Butanone	0.250	0.2224		mg/L		89	60 - 140	9	25
Carbon tetrachloride	0.0500	0.05517		mg/L		110	70 - 130	14	25
Chlorobenzene	0.0500	0.05002		mg/L		100	65 - 135	7	25
Chloroethane	0.0500	0.05089		mg/L		102	60 - 140	6	25
Chloroform	0.0500	0.04882		mg/L		98	70 - 121	4	25
Chloromethane	0.0500	0.03864		mg/L		77	60 - 140	7	25
2-Chlorotoluene	0.0500	0.04215		mg/L		84	73 - 125	9	25
4-Chlorotoluene	0.0500	0.04896		mg/L		98	74 - 125	11	25
cis-1,2-Dichloroethene	0.0500	0.05111		mg/L		102	75 - 125	17	25
cis-1,3-Dichloropropene	0.0500	0.04781		mg/L		96	74 - 125	7	25
Dibromochloromethane	0.0500	0.05046		mg/L		101	73 - 125	14	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04058		mg/L		81	59 - 125	10	25
1,2-Dibromoethane	0.0500	0.04547		mg/L		91	73 - 125	8	25
1,2-Dichlorobenzene	0.0500	0.05246		mg/L		105	75 - 125	9	25
1,3-Dichlorobenzene	0.0500	0.04951		mg/L		99	75 - 125	8	25
1,4-Dichlorobenzene	0.0500	0.05006		mg/L		100	75 - 125	6	25
Dichlorodifluoromethane	0.0500	0.05843		mg/L		117	50 - 150	25	25
1,1-Dichloroethane	0.0500	0.04837		mg/L		97	70 - 130	15	25
1,2-Dichloroethane	0.0500	0.05193		mg/L		104	72 - 130	9	25
1,1-Dichloroethene	0.0500	0.04991		mg/L		100	50 - 150	12	25
1,2-Dichloropropane	0.0500	0.04782		mg/L		96	74 - 125	2	25
1,3-Dichloropropane	0.0500	0.04762		mg/L		95	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05997		mg/L		120	75 - 125	12	25
1,1-Dichloropropene	0.0500	0.05368		mg/L		107	75 - 125	12	25
Ethylbenzene	0.0500	0.05257		mg/L		105	75 - 125	9	25
Hexachlorobutadiene	0.0500	0.05505		mg/L		110	75 - 125	15	25
Isopropylbenzene	0.0500	0.05140		mg/L		103	75 - 125	7	25
Methylene Chloride	0.0500	0.04396		mg/L		88	71 - 125	13	25
m,p-Xylenes	0.0500	0.05261		mg/L		105	75 - 125	6	25
MTBE	0.0500	0.05102		mg/L		102	65 - 135	17	25
Naphthalene	0.0500	0.04517		mg/L		90	70 - 130	11	25
n-Butylbenzene	0.0500	0.05178		mg/L		104	75 - 125	10	25
N-Propylbenzene	0.0500	0.04863		mg/L		97	75 - 125	12	25
o-Xylene	0.0500	0.05088		mg/L		102	75 - 125	10	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05411		mg/L		108	75 - 125	13	25
sec-Butylbenzene	0.0500	0.05104		mg/L		102	75 - 125	11	25
Styrene	0.0500	0.05081		mg/L		102	75 - 125	9	25
tert-Butylbenzene	0.0500	0.05210		mg/L		104	75 - 125	9	25
1,1,1,2-Tetrachloroethane	0.0500	0.05079		mg/L		102	72 - 125	10	25
1,1,2,2-Tetrachloroethane	0.0500	0.04115		mg/L		82	74 - 125	9	25
Tetrachloroethene	0.0500	0.05652		mg/L		113	71 - 125	6	25
Toluene	0.0500	0.05264		mg/L		105	70 - 130	6	25

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QC Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-105169/4

Matrix: Water

Analysis Batch: 105169

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	0.05012		mg/L		100	75 - 125	15	25
trans-1,3-Dichloropropene	0.0500	0.05114		mg/L		102	66 - 125	6	25
1,2,3-Trichlorobenzene	0.0500	0.04687		mg/L		94	75 - 137	9	25
1,2,4-Trichlorobenzene	0.0500	0.04999		mg/L		100	75 - 135	9	25
1,1,1-Trichloroethane	0.0500	0.05345		mg/L		107	70 - 130	9	25
1,1,2-Trichloroethane	0.0500	0.04828		mg/L		97	70 - 130	4	25
Trichloroethene	0.0500	0.05078		mg/L		102	75 - 135	10	25
Trichlorofluoromethane	0.0500	0.07649	*+	mg/L		153	60 - 140	7	25
1,2,3-Trichloropropane	0.0500	0.03915		mg/L		78	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.04974		mg/L		99	75 - 125	11	25
1,3,5-Trimethylbenzene	0.0500	0.04791		mg/L		96	60 - 140	8	25
Vinyl chloride	0.0500	0.03929		mg/L		79	60 - 140	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	88		74 - 124
Dibromofluoromethane (Surr)	92		75 - 131
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 880-28808-1 MS

Matrix: Water

Analysis Batch: 105169

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00161		0.0500	0.04853		mg/L		94	66 - 142
Bromobenzene	<0.000665	U	0.0500	0.05128		mg/L		103	75 - 125
Bromochloromethane	<0.000657	U	0.0500	0.04546		mg/L		91	60 - 140
Bromodichloromethane	<0.000552	U	0.0500	0.04753		mg/L		95	75 - 125
Bromoform	<0.000633	U	0.0500	0.05077		mg/L		102	75 - 125
Bromomethane	<0.00142	U	0.0500	0.04627		mg/L		93	60 - 140
2-Butanone	<0.00828	U	0.250	0.2268		mg/L		91	60 - 140
Carbon tetrachloride	<0.000896	U	0.0500	0.04458		mg/L		89	62 - 125
Chlorobenzene	<0.000530	U	0.0500	0.04619		mg/L		92	60 - 133
Chloroethane	<0.00198	U	0.0500	0.04508		mg/L		90	60 - 140
Chloroform	<0.000643	U	0.0500	0.04383		mg/L		88	70 - 130
Chloromethane	<0.00204	U	0.0500	0.05949		mg/L		119	60 - 140
2-Chlorotoluene	<0.00118	U	0.0500	0.04852		mg/L		97	73 - 125
4-Chlorotoluene	<0.000472	U	0.0500	0.04738		mg/L		95	74 - 125
cis-1,2-Dichloroethene	<0.000714	U	0.0500	0.04725		mg/L		95	75 - 125
cis-1,3-Dichloropropene	<0.00107	U	0.0500	0.04554		mg/L		91	74 - 125
Dibromochloromethane	<0.000547	U	0.0500	0.04618		mg/L		92	73 - 125
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.0500	0.04366		mg/L		87	59 - 125
1,2-Dibromoethane	<0.000999	U	0.0500	0.04359		mg/L		87	73 - 125
1,2-Dichlorobenzene	<0.000509	U	0.0500	0.05139		mg/L		103	75 - 125
1,3-Dichlorobenzene	<0.000513	U	0.0500	0.04855		mg/L		97	75 - 125
1,4-Dichlorobenzene	<0.000513	U	0.0500	0.04995		mg/L		100	75 - 125
Dichlorodifluoromethane	<0.000919	U	0.0500	0.04723		mg/L		94	70 - 130
1,1-Dichloroethane	<0.000635	U	0.0500	0.04468		mg/L		89	72 - 125

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QC Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

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

Lab Sample ID: 880-28808-1 MS

Matrix: Water

Analysis Batch: 105169

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	<0.000590	U	0.0500	0.04896		mg/L		98	68 - 127
1,1-Dichloroethene	<0.000738	U	0.0500	0.04300		mg/L		86	59 - 172
1,2-Dichloropropane	<0.000667	U	0.0500	0.04441		mg/L		89	74 - 125
1,3-Dichloropropane	<0.000514	U	0.0500	0.04530		mg/L		91	75 - 125
2,2-Dichloropropane	<0.000780	U	0.0500	0.05096		mg/L		102	75 - 125
1,1-Dichloropropene	<0.00160	U	0.0500	0.04246		mg/L		85	75 - 125
Ethylbenzene	0.00570		0.0500	0.05759		mg/L		104	75 - 125
Hexachlorobutadiene	<0.00126	U	0.0500	0.04412		mg/L		88	75 - 125
Isopropylbenzene	0.00267		0.0500	0.05173		mg/L		98	75 - 125
Methylene Chloride	<0.00173	U	0.0500	0.04122		mg/L		82	75 - 125
m,p-Xylenes	0.0211	F1	0.0500	0.09162	F1	mg/L		141	75 - 125
MTBE	<0.00139	U	0.0500	0.04831		mg/L		97	65 - 135
Naphthalene	<0.00135	U	0.0500	0.04718		mg/L		94	70 - 130
n-Butylbenzene	<0.000644	U	0.0500	0.04530		mg/L		91	75 - 125
N-Propylbenzene	0.00127		0.0500	0.04695		mg/L		91	75 - 125
o-Xylene	0.00323		0.0500	0.05402		mg/L		102	75 - 125
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.0500	0.04708		mg/L		94	75 - 125
sec-Butylbenzene	0.000561	J	0.0500	0.04589		mg/L		91	75 - 125
Styrene	<0.000655	U	0.0500	0.04874		mg/L		97	75 - 125
tert-Butylbenzene	<0.000442	U	0.0500	0.04794		mg/L		96	75 - 125
1,1,1,2-Tetrachloroethane	<0.000644	U	0.0500	0.04752		mg/L		95	72 - 125
1,1,2,2-Tetrachloroethane	<0.000470	U	0.0500	0.04215		mg/L		84	74 - 125
Tetrachloroethene	<0.000801	U	0.0500	0.04966		mg/L		99	71 - 125
Toluene	0.0113		0.0500	0.06988		mg/L		117	59 - 139
trans-1,2-Dichloroethene	<0.000945	U	0.0500	0.04470		mg/L		89	75 - 125
trans-1,3-Dichloropropene	<0.00127	U	0.0500	0.04943		mg/L		99	66 - 125
1,2,3-Trichlorobenzene	<0.00217	U	0.0500	0.04859		mg/L		97	75 - 137
1,2,4-Trichlorobenzene	<0.00175	U	0.0500	0.04888		mg/L		98	75 - 135
1,1,1-Trichloroethane	<0.00169	U	0.0500	0.04612		mg/L		92	75 - 125
1,1,2-Trichloroethane	<0.000511	U	0.0500	0.04603		mg/L		92	75 - 127
Trichloroethene	<0.000791	U	0.0500	0.04529		mg/L		91	62 - 137
Trichlorofluoromethane	<0.000638	U *	0.0500	0.06328		mg/L		127	60 - 140
1,2,3-Trichloropropane	<0.000490	U	0.0500	0.04672		mg/L		93	75 - 125
1,2,4-Trimethylbenzene	0.00441		0.0500	0.05707		mg/L		105	75 - 125
1,3,5-Trimethylbenzene	0.00141		0.0500	0.04969		mg/L		97	70 - 125
Vinyl chloride	<0.000638	U	0.0500	0.04014		mg/L		80	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	91		74 - 124						
Dibromofluoromethane (Surr)	88		75 - 131						
1,2-Dichloroethane-d4 (Surr)	109		63 - 144						
Toluene-d8 (Surr)	97		80 - 120						

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QC Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-105111/3

Matrix: Water

Analysis Batch: 105111

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			05/26/23 15:37	1
Chloride	<0.250	U	0.500	0.250 mg/L			05/26/23 15:37	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/26/23 15:37	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/26/23 15:37	1

Lab Sample ID: MB 860-105111/47

Matrix: Water

Analysis Batch: 105111

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			05/27/23 00:49	1
Chloride	<0.250	U	0.500	0.250 mg/L			05/27/23 00:49	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/27/23 00:49	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/27/23 00:49	1

Lab Sample ID: LCS 860-105111/48

Matrix: Water

Analysis Batch: 105111

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	9.992		mg/L		100	90 - 110
Chloride	10.0	10.03		mg/L		100	90 - 110
Fluoride	10.0	10.58		mg/L		106	90 - 110
Sulfate	10.0	10.13		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-105111/49

Matrix: Water

Analysis Batch: 105111

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	9.994		mg/L		100	90 - 110	0	20
Chloride	10.0	10.01		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.59		mg/L		106	90 - 110	0	20
Sulfate	10.0	10.12		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-105111/7

Matrix: Water

Analysis Batch: 105111

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	0.4274	J	mg/L		85	50 - 150
Chloride	0.500	0.4284	J	mg/L		86	50 - 150
Fluoride	0.500	0.4186	J	mg/L		84	50 - 150
Sulfate	0.500	0.4469	J	mg/L		89	50 - 150

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QC Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-28808-1 MS

Matrix: Water

Analysis Batch: 105111

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.348	J	10.0	9.708		mg/L		94	90 - 110
Chloride	217		10.0	225.0	4	mg/L		82	90 - 110
Fluoride	0.617		10.0	10.22		mg/L		96	90 - 110
Sulfate	46.8		10.0	56.58	4	mg/L		98	90 - 110

Lab Sample ID: 880-28808-1 MSD

Matrix: Water

Analysis Batch: 105111

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.348	J	10.0	9.749		mg/L		94	90 - 110	0	15
Chloride	217		10.0	225.0	4	mg/L		82	90 - 110	0	15
Fluoride	0.617		10.0	10.31		mg/L		97	90 - 110	1	15
Sulfate	46.8		10.0	56.64	4	mg/L		99	90 - 110	0	15

Lab Sample ID: MB 860-105112/3

Matrix: Water

Analysis Batch: 105112

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			05/26/23 15:37	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/26/23 15:37	1

Lab Sample ID: MB 860-105112/47

Matrix: Water

Analysis Batch: 105112

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			05/27/23 00:49	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/27/23 00:49	1

Lab Sample ID: LCS 860-105112/48

Matrix: Water

Analysis Batch: 105112

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	10.12		mg/L		101	80 - 120
Nitrite as N	10.0	10.31		mg/L		103	80 - 120

Lab Sample ID: LCSD 860-105112/49

Matrix: Water

Analysis Batch: 105112

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	10.11		mg/L		101	80 - 120	0	20
Nitrite as N	10.0	10.32		mg/L		103	80 - 120	0	20

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QC Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-105112/6

Matrix: Water

Analysis Batch: 105112

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	0.09679	J	mg/L		97	50 - 150
Nitrite as N	0.100	0.1019		mg/L		102	50 - 150

Lab Sample ID: 880-28808-1 MS

Matrix: Water

Analysis Batch: 105112

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0603	J	10.0	9.814		mg/L		98	80 - 120
Nitrite as N	0.691		2.50	2.740		mg/L		82	80 - 120

Lab Sample ID: 880-28808-1 MSD

Matrix: Water

Analysis Batch: 105112

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.0603	J	10.0	9.820		mg/L		98	80 - 120	0	15
Nitrite as N	0.691		2.50	2.714		mg/L		81	80 - 120	1	15

Lab Sample ID: MB 860-105391/3

Matrix: Water

Analysis Batch: 105391

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			05/31/23 02:26	1
Chloride	<0.250	U	0.500	0.250 mg/L			05/31/23 02:26	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/31/23 02:26	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/31/23 02:26	1

Lab Sample ID: LCS 860-105391/4

Matrix: Water

Analysis Batch: 105391

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	10.13		mg/L		101	90 - 110
Chloride	10.0	10.13		mg/L		101	90 - 110
Fluoride	10.0	10.64		mg/L		106	90 - 110
Sulfate	10.0	10.22		mg/L		102	90 - 110

Lab Sample ID: LCSD 860-105391/5

Matrix: Water

Analysis Batch: 105391

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	10.13		mg/L		101	90 - 110	0	20
Chloride	10.0	10.12		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.68		mg/L		107	90 - 110	0	20
Sulfate	10.0	10.22		mg/L		102	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-105391/7

Matrix: Water

Analysis Batch: 105391

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	0.4428	J	mg/L		89	50 - 150
Chloride	0.500	0.4625	J	mg/L		92	50 - 150
Fluoride	0.500	0.4740	J	mg/L		95	50 - 150
Sulfate	0.500	0.4574	J	mg/L		91	50 - 150

Lab Sample ID: 880-28808-1 MS

Matrix: Water

Analysis Batch: 105391

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.402	J	10.0	10.11		mg/L		97	90 - 110
Chloride	219		10.0	227.2	4	mg/L		84	90 - 110
Fluoride	0.475	J	10.0	10.21		mg/L		97	90 - 110
Sulfate	46.5		10.0	57.26	4	mg/L		108	90 - 110

Lab Sample ID: 880-28808-1 MSD

Matrix: Water

Analysis Batch: 105391

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.402	J	10.0	10.15		mg/L		98	90 - 110	0	15
Chloride	219		10.0	227.3	4	mg/L		85	90 - 110	0	15
Fluoride	0.475	J	10.0	10.25		mg/L		98	90 - 110	0	15
Sulfate	46.5		10.0	57.36	4	mg/L		109	90 - 110	0	15

Lab Sample ID: MB 860-105392/3

Matrix: Water

Analysis Batch: 105392

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			05/31/23 02:26	1
Nitrite as N	0.03381	J	0.100	0.0293 mg/L			05/31/23 02:26	1

Lab Sample ID: LCS 860-105392/4

Matrix: Water

Analysis Batch: 105392

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	10.21		mg/L		102	80 - 120
Nitrite as N	10.0	10.44		mg/L		104	80 - 120

Lab Sample ID: LCSD 860-105392/5

Matrix: Water

Analysis Batch: 105392

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	10.44		mg/L		104	80 - 120	0	20

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QC Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-105392/6

Matrix: Water

Analysis Batch: 105392

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	0.1067		mg/L		107	50 - 150
Nitrite as N	0.100	0.1262		mg/L		126	50 - 150

Lab Sample ID: 880-28808-1 MS

Matrix: Water

Analysis Batch: 105392

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0657	J H	10.0	9.981		mg/L		99	80 - 120
Nitrite as N	0.700	H B	2.50	2.870		mg/L		87	80 - 120

Lab Sample ID: 880-28808-1 MSD

Matrix: Water

Analysis Batch: 105392

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.0657	J H	10.0	9.996		mg/L		99	80 - 120	0	15
Nitrite as N	0.700	H B	2.50	2.862		mg/L		86	80 - 120	0	15

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-105246/1-A

Matrix: Water

Analysis Batch: 105387

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 105246

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		05/29/23 13:25	05/30/23 09:50	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		05/29/23 13:25	05/30/23 09:50	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		05/29/23 13:25	05/30/23 09:50	1
Sodium	<0.152	U	0.500	0.152 mg/L		05/29/23 13:25	05/30/23 09:50	1
SiO2	<0.471	U	1.07	0.471 mg/L		05/29/23 13:25	05/30/23 09:50	1

Lab Sample ID: LCS 860-105246/2-A

Matrix: Water

Analysis Batch: 105387

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 105246

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	23.40		mg/L		94	85 - 115
Magnesium	25.0	22.80		mg/L		91	85 - 115
Potassium	10.0	9.350		mg/L		94	85 - 115
Sodium	25.0	22.60		mg/L		90	85 - 115
SiO2	21.4	20.29		mg/L		95	85 - 115

Lab Sample ID: LCSD 860-105246/3-A

Matrix: Water

Analysis Batch: 105387

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 105246

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	22.70		mg/L		91	85 - 115	3	20
Magnesium	25.0	22.10		mg/L		88	85 - 115	3	20

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QC Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-105246/3-A

Matrix: Water

Analysis Batch: 105387

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 105246

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Potassium	10.0	9.090		mg/L		91	85 - 115		3	20
Sodium	25.0	22.00		mg/L		88	85 - 115		3	20
SiO2	21.4	19.92		mg/L		93	85 - 115		2	20

Lab Sample ID: LLCS 860-105246/4-A

Matrix: Water

Analysis Batch: 105387

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 105246

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Calcium	0.200	0.2250		mg/L		113	50 - 150			
Magnesium	0.200	0.2200		mg/L		110	50 - 150			
Potassium	0.500	0.5500		mg/L		110	50 - 150			
Sodium	0.500	0.4890	J	mg/L		98	50 - 150			
SiO2	1.07	1.149		mg/L		107	50 - 150			

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-105322/3

Matrix: Water

Analysis Batch: 105322

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			05/29/23 11:32	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			05/29/23 11:32	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			05/29/23 11:32	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			05/29/23 11:32	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			05/29/23 11:32	1

Lab Sample ID: LCS 860-105322/4

Matrix: Water

Analysis Batch: 105322

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Alkalinity	250	255.5		mg/L		102	85 - 115			

Lab Sample ID: LCSD 860-105322/5

Matrix: Water

Analysis Batch: 105322

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Alkalinity	250	255.8		mg/L		102	85 - 115		0	20

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

Lab Sample ID: MB 860-105544/1

Matrix: Water

Analysis Batch: 105544

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			05/31/23 10:50	1

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QC Sample Results

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

Job ID: 880-28808-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-105544/2

Matrix: Water

Analysis Batch: 105544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 860-105544/3

Matrix: Water

Analysis Batch: 105544

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1007		mg/L		101	80 - 120	0	10

Lab Sample ID: LLCS 860-105544/4

Matrix: Water

Analysis Batch: 105544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

QC Association Summary

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

Job ID: 880-28808-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 105169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28808-1	Levey Well	Total/NA	Water	8260C	
MB 860-105169/10	Method Blank	Total/NA	Water	8260C	
LCS 860-105169/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-105169/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-28808-1 MS	Levey Well	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 105111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28808-1	Levey Well	Total/NA	Water	300.0	
MB 860-105111/3	Method Blank	Total/NA	Water	300.0	
MB 860-105111/47	Method Blank	Total/NA	Water	300.0	
LCS 860-105111/48	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105111/49	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105111/7	Lab Control Sample	Total/NA	Water	300.0	
880-28808-1 MS	Levey Well	Total/NA	Water	300.0	
880-28808-1 MSD	Levey Well	Total/NA	Water	300.0	

Analysis Batch: 105112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28808-1	Levey Well	Total/NA	Water	300.0	
MB 860-105112/3	Method Blank	Total/NA	Water	300.0	
MB 860-105112/47	Method Blank	Total/NA	Water	300.0	
LCS 860-105112/48	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105112/49	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105112/6	Lab Control Sample	Total/NA	Water	300.0	
880-28808-1 MS	Levey Well	Total/NA	Water	300.0	
880-28808-1 MSD	Levey Well	Total/NA	Water	300.0	

Analysis Batch: 105391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-105391/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105391/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105391/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105391/7	Lab Control Sample	Total/NA	Water	300.0	
880-28808-1 MS	Levey Well	Total/NA	Water	300.0	
880-28808-1 MSD	Levey Well	Total/NA	Water	300.0	

Analysis Batch: 105392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-105392/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105392/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105392/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105392/6	Lab Control Sample	Total/NA	Water	300.0	
880-28808-1 MS	Levey Well	Total/NA	Water	300.0	
880-28808-1 MSD	Levey Well	Total/NA	Water	300.0	

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QC Association Summary

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

Job ID: 880-28808-1
SDG: Hobbs NM

Metals

Prep Batch: 105246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28808-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-105246/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-105246/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-105246/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-105246/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 105387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28808-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	105246
880-28808-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	105246
MB 860-105246/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	105246
LCS 860-105246/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	105246
LCSD 860-105246/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	105246
LLCS 860-105246/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	105246

General Chemistry

Analysis Batch: 104468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28808-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 105322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28808-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-105322/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-105322/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-105322/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 105544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28808-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-105544/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-105544/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-105544/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-105544/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 105857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28808-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

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

Job ID: 880-28808-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-28808-1

Date Collected: 05/25/23 10:15

Matrix: Water

Date Received: 05/25/23 14:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	105169	NA	EET HOU	05/27/23 14:23
Total/NA	Analysis	300.0		1	105111	WP	EET HOU	05/27/23 01:17
Total/NA	Analysis	300.0		1	105112	WP	EET HOU	05/27/23 01:17
Total Recoverable	Prep	200.7			105246	PB	EET HOU	05/29/23 13:25
Total Recoverable	Analysis	200.7 Rev 4.4		1	105387	JDM	EET HOU	05/30/23 10:47
Total Recoverable	Prep	200.7			105246	PB	EET HOU	05/29/23 13:25
Total Recoverable	Analysis	200.7 Rev 4.4		50	105387	JDM	EET HOU	05/30/23 11:01
Total/NA	Analysis	SM 1030E		1	104468	SC	EET HOU	05/29/23 12:37
Total/NA	Analysis	SM 2320B		1	105322	TL	EET HOU	05/29/23 14:59
Total/NA	Analysis	SM 2540C		1	105544	OH	EET HOU	05/31/23 10:50
Total/NA	Analysis	SM 4500 H+ B		1	105857	TL	EET HOU	06/01/23 14:54

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: 880-28808-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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: 880-28808-1
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: 880-28808-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28808-1	Levey Well	Water	05/25/23 10:15	05/25/23 14:42

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Chain of Custody



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

Work Order No: 78808

Project Manager		Beaux Jennings		Bill to (if different)				TROUS NWR (373-392-7350) Phoenix, AZ (480-335-0900) Altamira GA (770-449-8600) Tampa FL (813-820-2000)		WWW.XELTICO.COM Page	
Company Name:		Ensolum LLC		Company Name:						Work Order Comments	
Address:		601 Merienfeld #400		Address:						Program: ☐ UST/ ☐ PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
City, State ZIP:		Midland TX 79701		City, State ZIP:						State of Project: Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Phone:		432-230-3344		Email:		biennings@ensolum.com				Deliverables ☐ EDD ☐ ADaPT ☐ Other	

[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 		2 2/25/23			
3		4			
5		6			

Revised Date 05/4/18 Rev 2018 1

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-28808-1

SDG Number: Hobbs NM

Login Number: 28808

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	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-28808-1

SDG Number: Hobbs NM

Login Number: 28808

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 05/26/23 05:23 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 6/7/2023 7:48:45 AM

JOB DESCRIPTION

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

JOB NUMBER

880-28916-1

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
6/7/2023 7:48:45 AM

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

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

Laboratory Job ID: 880-28916-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-28916-1
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
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
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 880-28916-1
SDG: Hobbs NM

Job ID: 880-28916-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-28916-1**

Receipt

The sample was received on 5/30/2023 3:54 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 4.3°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-105688 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 860-105998 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 860-105998 was outside control limits. Sample matrix interference is suspected.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-105999 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFMS: 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 (880-28916-1).

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

Metals

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

General Chemistry

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

Client Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-28916-1

Date Collected: 05/30/23 14:00

Matrix: Water

Date Received: 05/30/23 15:54

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			06/01/23 10:26	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			06/01/23 10:26	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			06/01/23 10:26	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			06/01/23 10:26	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			06/01/23 10:26	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			06/01/23 10:26	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			06/01/23 10:26	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			06/01/23 10:26	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			06/01/23 10:26	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			06/01/23 10:26	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			06/01/23 10:26	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			06/01/23 10:26	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			06/01/23 10:26	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			06/01/23 10:26	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			06/01/23 10:26	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			06/01/23 10:26	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			06/01/23 10:26	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			06/01/23 10:26	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			06/01/23 10:26	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			06/01/23 10:26	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			06/01/23 10:26	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			06/01/23 10:26	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			06/01/23 10:26	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			06/01/23 10:26	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			06/01/23 10:26	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			06/01/23 10:26	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			06/01/23 10:26	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			06/01/23 10:26	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			06/01/23 10:26	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			06/01/23 10:26	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			06/01/23 10:26	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			06/01/23 10:26	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			06/01/23 10:26	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			06/01/23 10:26	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			06/01/23 10:26	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			06/01/23 10:26	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			06/01/23 10:26	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			06/01/23 10:26	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			06/01/23 10:26	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			06/01/23 10:26	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			06/01/23 10:26	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			06/01/23 10:26	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			06/01/23 10:26	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			06/01/23 10:26	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			06/01/23 10:26	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			06/01/23 10:26	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			06/01/23 10:26	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			06/01/23 10:26	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			06/01/23 10:26	1

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Client Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-28916-1
Date Collected: 05/30/23 14:00 Matrix: Water
Date Received: 05/30/23 15:54

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			06/01/23 10:26	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			06/01/23 10:26	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			06/01/23 10:26	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			06/01/23 10:26	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			06/01/23 10:26	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			06/01/23 10:26	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			06/01/23 10:26	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			06/01/23 10:26	1
1,2,4-Trimethylbenzene	0.000889	J	0.00100	0.000417 mg/L			06/01/23 10:26	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			06/01/23 10:26	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			06/01/23 10:26	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			06/01/23 10:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124				06/01/23 10:26	1
Dibromofluoromethane (Surr)	100		75 - 131				06/01/23 10:26	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 144				06/01/23 10:26	1
Toluene-d8 (Surr)	104		80 - 120				06/01/23 10:26	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.351		0.100	0.0391 mg/L			06/01/23 00:38	1
Chloride	231		0.500	0.250 mg/L			06/01/23 00:38	1
Nitrite as N	0.664	H	0.100	0.0293 mg/L			06/03/23 00:22	1
Fluoride	0.154	J	0.500	0.100 mg/L			06/01/23 00:38	1
Sulfate	45.5		0.500	0.200 mg/L			06/01/23 00:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.353	J	0.500	0.0711 mg/L			06/01/23 16:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	187		10.0	5.76 mg/L		06/01/23 10:30	06/01/23 19:45	50
Magnesium	37.8		0.200	0.0428 mg/L		06/01/23 10:30	06/01/23 19:28	1
Potassium	2.87		0.500	0.0914 mg/L		06/01/23 10:30	06/01/23 19:28	1
Sodium	66.2		0.500	0.152 mg/L		06/01/23 10:30	06/01/23 19:28	1
SiO2	61.4		1.07	0.471 mg/L		06/01/23 10:30	06/01/23 19:28	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-6.63			%			06/01/23 12:37	1
Alkalinity (SM 2320B)	400		4.00	4.00 mg/L			06/01/23 14:38	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	400		4.00	4.00 mg/L			06/01/23 14:38	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			06/01/23 14:38	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			06/01/23 14:38	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			06/01/23 14:38	1
Total Dissolved Solids (SM 2540C)	979		10.0	10.0 mg/L			06/01/23 10:48	1
pH (SM 4500 H+ B)	7.1	HF		SU			06/01/23 15:03	1

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Client Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 05/30/23 14:00
Date Received: 05/30/23 15:54

Lab Sample ID: 880-28916-1
Matrix: Water

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Temperature (SM 4500 H+ B)	17.8	HF		Degrees C			06/01/23 15:03	1	

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

Surrogate Summary

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

Job ID: 880-28916-1
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)
880-28916-1	Levey Well	104	100	107	104
LCS 860-105688/3	Lab Control Sample	102	101	104	103
LCSD 860-105688/4	Lab Control Sample Dup	103	104	102	103
MB 860-105688/9	Method Blank	108	97	104	108
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: 880-28916-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-105688/9

Matrix: Water

Analysis Batch: 105688

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			06/01/23 09:24	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			06/01/23 09:24	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			06/01/23 09:24	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			06/01/23 09:24	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			06/01/23 09:24	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			06/01/23 09:24	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			06/01/23 09:24	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			06/01/23 09:24	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			06/01/23 09:24	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			06/01/23 09:24	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			06/01/23 09:24	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			06/01/23 09:24	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			06/01/23 09:24	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			06/01/23 09:24	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			06/01/23 09:24	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			06/01/23 09:24	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			06/01/23 09:24	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			06/01/23 09:24	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			06/01/23 09:24	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			06/01/23 09:24	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			06/01/23 09:24	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			06/01/23 09:24	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			06/01/23 09:24	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			06/01/23 09:24	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			06/01/23 09:24	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			06/01/23 09:24	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			06/01/23 09:24	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			06/01/23 09:24	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			06/01/23 09:24	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			06/01/23 09:24	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			06/01/23 09:24	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			06/01/23 09:24	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			06/01/23 09:24	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			06/01/23 09:24	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			06/01/23 09:24	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			06/01/23 09:24	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			06/01/23 09:24	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			06/01/23 09:24	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			06/01/23 09:24	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			06/01/23 09:24	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			06/01/23 09:24	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			06/01/23 09:24	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			06/01/23 09:24	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			06/01/23 09:24	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			06/01/23 09:24	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			06/01/23 09:24	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			06/01/23 09:24	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			06/01/23 09:24	1

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QC Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-105688/9

Matrix: Water

Analysis Batch: 105688

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			06/01/23 09:24	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			06/01/23 09:24	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			06/01/23 09:24	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			06/01/23 09:24	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			06/01/23 09:24	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			06/01/23 09:24	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			06/01/23 09:24	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			06/01/23 09:24	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			06/01/23 09:24	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			06/01/23 09:24	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			06/01/23 09:24	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			06/01/23 09:24	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			06/01/23 09:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		74 - 124		06/01/23 09:24	1
Dibromofluoromethane (Surr)	97		75 - 131		06/01/23 09:24	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		06/01/23 09:24	1
Toluene-d8 (Surr)	108		80 - 120		06/01/23 09:24	1

Lab Sample ID: LCS 860-105688/3

Matrix: Water

Analysis Batch: 105688

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	0.05476		mg/L		110	75 - 125
Bromobenzene	0.0500	0.05271		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05354		mg/L		107	60 - 140
Bromodichloromethane	0.0500	0.05562		mg/L		111	75 - 125
Bromoform	0.0500	0.05090		mg/L		102	70 - 130
Bromomethane	0.0500	0.04750		mg/L		95	60 - 140
2-Butanone	0.250	0.2584		mg/L		103	60 - 140
Carbon tetrachloride	0.0500	0.05413		mg/L		108	70 - 130
Chlorobenzene	0.0500	0.05301		mg/L		106	65 - 135
Chloroethane	0.0500	0.05524		mg/L		110	60 - 140
Chloroform	0.0500	0.05544		mg/L		111	70 - 121
Chloromethane	0.0500	0.05035		mg/L		101	60 - 140
2-Chlorotoluene	0.0500	0.05594		mg/L		112	73 - 125
4-Chlorotoluene	0.0500	0.05632		mg/L		113	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05658		mg/L		113	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05751		mg/L		115	74 - 125
Dibromochloromethane	0.0500	0.05258		mg/L		105	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05382		mg/L		108	59 - 125
1,2-Dibromoethane	0.0500	0.05241		mg/L		105	73 - 125
1,2-Dichlorobenzene	0.0500	0.05368		mg/L		107	75 - 125
1,3-Dichlorobenzene	0.0500	0.05397		mg/L		108	75 - 125
1,4-Dichlorobenzene	0.0500	0.05336		mg/L		107	75 - 125
Dichlorodifluoromethane	0.0500	0.04439		mg/L		89	50 - 150

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QC Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-105688/3

Matrix: Water

Analysis Batch: 105688

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	0.05906		mg/L		118	70 - 130
1,2-Dichloroethane	0.0500	0.05525		mg/L		110	72 - 130
1,1-Dichloroethene	0.0500	0.05660		mg/L		113	50 - 150
1,2-Dichloropropane	0.0500	0.05691		mg/L		114	74 - 125
1,3-Dichloropropane	0.0500	0.05461		mg/L		109	75 - 125
2,2-Dichloropropane	0.0500	0.05628		mg/L		113	75 - 125
1,1-Dichloropropene	0.0500	0.05596		mg/L		112	75 - 125
Ethylbenzene	0.0500	0.05484		mg/L		110	75 - 125
Hexachlorobutadiene	0.0500	0.05376		mg/L		108	75 - 125
Isopropylbenzene	0.0500	0.05440		mg/L		109	75 - 125
Methylene Chloride	0.0500	0.05235		mg/L		105	71 - 125
m,p-Xylenes	0.0500	0.05516		mg/L		110	75 - 125
MTBE	0.0500	0.05660		mg/L		113	65 - 135
Naphthalene	0.0500	0.05873		mg/L		117	70 - 130
n-Butylbenzene	0.0500	0.06016		mg/L		120	75 - 125
N-Propylbenzene	0.0500	0.05779		mg/L		116	75 - 125
o-Xylene	0.0500	0.05381		mg/L		108	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05575		mg/L		111	75 - 125
sec-Butylbenzene	0.0500	0.05676		mg/L		114	75 - 125
Styrene	0.0500	0.05484		mg/L		110	75 - 125
tert-Butylbenzene	0.0500	0.05507		mg/L		110	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05178		mg/L		104	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05712		mg/L		114	74 - 125
Tetrachloroethene	0.0500	0.05054		mg/L		101	71 - 125
Toluene	0.0500	0.05267		mg/L		105	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05514		mg/L		110	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05628		mg/L		113	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05631		mg/L		113	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05499		mg/L		110	75 - 135
1,1,1-Trichloroethane	0.0500	0.05430		mg/L		109	70 - 130
1,1,2-Trichloroethane	0.0500	0.05430		mg/L		109	70 - 130
Trichloroethene	0.0500	0.05216		mg/L		104	75 - 135
Trichlorofluoromethane	0.0500	0.05626		mg/L		113	60 - 140
1,2,3-Trichloropropane	0.0500	0.05649		mg/L		113	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05538		mg/L		111	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05505		mg/L		110	60 - 140
Vinyl chloride	0.0500	0.05336		mg/L		107	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
Toluene-d8 (Surr)	103		80 - 120

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QC Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-105688/4

Matrix: Water

Analysis Batch: 105688

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	0.05307		mg/L		106	75 - 125	3	25
Bromobenzene	0.0500	0.05288		mg/L		106	75 - 125	0	25
Bromochloromethane	0.0500	0.05191		mg/L		104	60 - 140	3	25
Bromodichloromethane	0.0500	0.05351		mg/L		107	75 - 125	4	25
Bromoform	0.0500	0.04989		mg/L		100	70 - 130	2	25
Bromomethane	0.0500	0.04618		mg/L		92	60 - 140	3	25
2-Butanone	0.250	0.2594		mg/L		104	60 - 140	0	25
Carbon tetrachloride	0.0500	0.05503		mg/L		110	70 - 130	2	25
Chlorobenzene	0.0500	0.05156		mg/L		103	65 - 135	3	25
Chloroethane	0.0500	0.05539		mg/L		111	60 - 140	0	25
Chloroform	0.0500	0.05479		mg/L		110	70 - 121	1	25
Chloromethane	0.0500	0.04957		mg/L		99	60 - 140	2	25
2-Chlorotoluene	0.0500	0.05658		mg/L		113	73 - 125	1	25
4-Chlorotoluene	0.0500	0.05670		mg/L		113	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.05558		mg/L		111	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05498		mg/L		110	74 - 125	4	25
Dibromochloromethane	0.0500	0.05034		mg/L		101	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05532		mg/L		111	59 - 125	3	25
1,2-Dibromoethane	0.0500	0.05180		mg/L		104	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05349		mg/L		107	75 - 125	0	25
1,3-Dichlorobenzene	0.0500	0.05374		mg/L		107	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.05341		mg/L		107	75 - 125	0	25
Dichlorodifluoromethane	0.0500	0.04464		mg/L		89	50 - 150	1	25
1,1-Dichloroethane	0.0500	0.05698		mg/L		114	70 - 130	4	25
1,2-Dichloroethane	0.0500	0.05276		mg/L		106	72 - 130	5	25
1,1-Dichloroethene	0.0500	0.05583		mg/L		112	50 - 150	1	25
1,2-Dichloropropane	0.0500	0.05383		mg/L		108	74 - 125	6	25
1,3-Dichloropropane	0.0500	0.05331		mg/L		107	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05539		mg/L		111	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.05673		mg/L		113	75 - 125	1	25
Ethylbenzene	0.0500	0.05372		mg/L		107	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.05625		mg/L		112	75 - 125	5	25
Isopropylbenzene	0.0500	0.05366		mg/L		107	75 - 125	1	25
Methylene Chloride	0.0500	0.05113		mg/L		102	71 - 125	2	25
m,p-Xylenes	0.0500	0.05302		mg/L		106	75 - 125	4	25
MTBE	0.0500	0.05487		mg/L		110	65 - 135	3	25
Naphthalene	0.0500	0.06216		mg/L		124	70 - 130	6	25
n-Butylbenzene	0.0500	0.06197		mg/L		124	75 - 125	3	25
N-Propylbenzene	0.0500	0.05898		mg/L		118	75 - 125	2	25
o-Xylene	0.0500	0.05255		mg/L		105	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05739		mg/L		115	75 - 125	3	25
sec-Butylbenzene	0.0500	0.05843		mg/L		117	75 - 125	3	25
Styrene	0.0500	0.05296		mg/L		106	75 - 125	3	25
tert-Butylbenzene	0.0500	0.05635		mg/L		113	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.05048		mg/L		101	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.05715		mg/L		114	74 - 125	0	25
Tetrachloroethene	0.0500	0.05033		mg/L		101	71 - 125	0	25
Toluene	0.0500	0.05196		mg/L		104	70 - 130	1	25

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QC Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-105688/4

Matrix: Water

Analysis Batch: 105688

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	0.05495		mg/L		110	75 - 125	0	25
trans-1,3-Dichloropropene	0.0500	0.05422		mg/L		108	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05968		mg/L		119	75 - 137	6	25
1,2,4-Trichlorobenzene	0.0500	0.05694		mg/L		114	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.05468		mg/L		109	70 - 130	1	25
1,1,2-Trichloroethane	0.0500	0.05275		mg/L		106	70 - 130	3	25
Trichloroethene	0.0500	0.05143		mg/L		103	75 - 135	1	25
Trichlorofluoromethane	0.0500	0.05614		mg/L		112	60 - 140	0	25
1,2,3-Trichloropropane	0.0500	0.05585		mg/L		112	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.05613		mg/L		112	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.05614		mg/L		112	60 - 140	2	25
Vinyl chloride	0.0500	0.05322		mg/L		106	60 - 140	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	103		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-105602/3

Matrix: Water

Analysis Batch: 105602

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			05/31/23 15:07	1
Chloride	<0.250	U	0.500	0.250 mg/L			05/31/23 15:07	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/31/23 15:07	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/31/23 15:07	1

Lab Sample ID: LCS 860-105602/4

Matrix: Water

Analysis Batch: 105602

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	9.716		mg/L		97	90 - 110
Chloride	10.0	9.071		mg/L		91	90 - 110
Fluoride	10.0	10.04		mg/L		100	90 - 110
Sulfate	10.0	9.285		mg/L		93	90 - 110

Lab Sample ID: LCSD 860-105602/5

Matrix: Water

Analysis Batch: 105602

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	9.803		mg/L		98	90 - 110	1	20
Chloride	10.0	9.154		mg/L		92	90 - 110	1	20
Fluoride	10.0	10.15		mg/L		102	90 - 110	1	20

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QC Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-105602/5

Matrix: Water

Analysis Batch: 105602

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	9.383		mg/L		94	90 - 110	1	20

Lab Sample ID: LLCS 860-105602/7

Matrix: Water

Analysis Batch: 105602

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	0.5123		mg/L		102	50 - 150		
Chloride	0.500	0.5541		mg/L		111	50 - 150		
Fluoride	0.500	0.4455	J	mg/L		89	50 - 150		
Sulfate	0.500	0.2756	J	mg/L		55	50 - 150		

Lab Sample ID: MB 860-105603/3

Matrix: Water

Analysis Batch: 105603

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			05/31/23 15:07	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/31/23 15:07	1

Lab Sample ID: LCS 860-105603/4

Matrix: Water

Analysis Batch: 105603

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	10.07		mg/L		101	80 - 120		
Nitrite as N	10.0	10.32		mg/L		103	80 - 120		

Lab Sample ID: LCSD 860-105603/5

Matrix: Water

Analysis Batch: 105603

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	10.17		mg/L		102	80 - 120	1	20
Nitrite as N	10.0	10.42		mg/L		104	80 - 120	1	20

Lab Sample ID: LLCS 860-105603/6

Matrix: Water

Analysis Batch: 105603

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	0.1120		mg/L		112	50 - 150		
Nitrite as N	0.100	0.06262	J	mg/L		63	50 - 150		

Lab Sample ID: MB 860-105823/3

Matrix: Water

Analysis Batch: 105823

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			06/01/23 14:41	1

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QC Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-105823/3

Matrix: Water

Analysis Batch: 105823

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			06/01/23 14:41	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/01/23 14:41	1
Sulfate	<0.200	U	0.500	0.200 mg/L			06/01/23 14:41	1

Lab Sample ID: LCS 860-105823/4

Matrix: Water

Analysis Batch: 105823

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	9.953		mg/L		100	90 - 110
Chloride	10.0	9.969		mg/L		100	90 - 110
Fluoride	10.0	10.26		mg/L		103	90 - 110
Sulfate	10.0	10.09		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-105823/5

Matrix: Water

Analysis Batch: 105823

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	9.957		mg/L		100	90 - 110	0	20
Chloride	10.0	9.973		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.38		mg/L		104	90 - 110	1	20
Sulfate	10.0	10.10		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-105823/7

Matrix: Water

Analysis Batch: 105823

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	0.4202	J	mg/L		84	50 - 150
Chloride	0.500	0.4337	J	mg/L		87	50 - 150
Fluoride	0.500	0.4070	J	mg/L		81	50 - 150
Sulfate	0.500	0.4446	J	mg/L		89	50 - 150

Lab Sample ID: MB 860-105824/3

Matrix: Water

Analysis Batch: 105824

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			06/01/23 14:41	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/01/23 14:41	1

Lab Sample ID: LCS 860-105824/4

Matrix: Water

Analysis Batch: 105824

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	10.08		mg/L		101	80 - 120
Nitrite as N	10.0	10.24		mg/L		102	80 - 120

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QC Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-105824/5

Matrix: Water

Analysis Batch: 105824

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	10.08		mg/L		101	80 - 120	0	20
Nitrite as N	10.0	10.27		mg/L		103	80 - 120	0	20

Lab Sample ID: LLCS 860-105824/6

Matrix: Water

Analysis Batch: 105824

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	0.09894	J	mg/L		99	50 - 150		
Nitrite as N	0.100	0.1135		mg/L		114	50 - 150		

Lab Sample ID: MB 860-105998/3

Matrix: Water

Analysis Batch: 105998

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			06/02/23 15:03	1
Chloride	<0.250	U	0.500	0.250 mg/L			06/02/23 15:03	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/02/23 15:03	1
Sulfate	<0.200	U	0.500	0.200 mg/L			06/02/23 15:03	1

Lab Sample ID: LCS 860-105998/4

Matrix: Water

Analysis Batch: 105998

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	9.892		mg/L		99	90 - 110		
Chloride	10.0	9.925		mg/L		99	90 - 110		
Fluoride	10.0	10.34		mg/L		103	90 - 110		
Sulfate	10.0	10.03		mg/L		100	90 - 110		

Lab Sample ID: LCSD 860-105998/5

Matrix: Water

Analysis Batch: 105998

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	9.938		mg/L		99	90 - 110	0	20
Chloride	10.0	9.958		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.46		mg/L		105	90 - 110	1	20
Sulfate	10.0	10.07		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-105998/7

Matrix: Water

Analysis Batch: 105998

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	0.4225	J	mg/L		84	50 - 150		
Chloride	0.500	0.4302	J	mg/L		86	50 - 150		
Fluoride	0.500	0.4158	J	mg/L		83	50 - 150		
Sulfate	0.500	0.4422	J	mg/L		88	50 - 150		

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QC Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-105999/3

Matrix: Water

Analysis Batch: 105999

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			06/02/23 15:03	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/02/23 15:03	1

Lab Sample ID: LCS 860-105999/4

Matrix: Water

Analysis Batch: 105999

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	10.03		mg/L		100	80 - 120
Nitrite as N	10.0	10.25		mg/L		102	80 - 120

Lab Sample ID: LCSD 860-105999/5

Matrix: Water

Analysis Batch: 105999

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	10.06		mg/L		101	80 - 120	0	20
Nitrite as N	10.0	10.28		mg/L		103	80 - 120	0	20

Lab Sample ID: LLCS 860-105999/6

Matrix: Water

Analysis Batch: 105999

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	0.09873	J	mg/L		99	50 - 150
Nitrite as N	0.100	0.1158		mg/L		116	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-105752/1-A

Matrix: Water

Analysis Batch: 105950

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 105752

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		06/01/23 10:30	06/01/23 18:55	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		06/01/23 10:30	06/01/23 18:55	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		06/01/23 10:30	06/01/23 18:55	1
Sodium	<0.152	U	0.500	0.152 mg/L		06/01/23 10:30	06/01/23 18:55	1
SiO2	<0.471	U	1.07	0.471 mg/L		06/01/23 10:30	06/01/23 18:55	1

Lab Sample ID: LCS 860-105752/2-A

Matrix: Water

Analysis Batch: 105950

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 105752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	26.50		mg/L		106	85 - 115
Magnesium	25.0	26.00		mg/L		104	85 - 115
Potassium	10.0	10.40		mg/L		104	85 - 115
Sodium	25.0	25.60		mg/L		102	85 - 115
SiO2	21.4	22.47		mg/L		105	85 - 115

Eurofins Midland

QC Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LCSD 860-105752/3-A

Matrix: Water

Analysis Batch: 105950

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 105752

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	Limit
Calcium	25.0	27.10		mg/L		108	85 - 115	2	20
Magnesium	25.0	26.40		mg/L		106	85 - 115	2	20
Potassium	10.0	10.50		mg/L		105	85 - 115	1	20
Sodium	25.0	26.20		mg/L		105	85 - 115	2	20
SiO2	21.4	23.11		mg/L		108	85 - 115	3	20

Lab Sample ID: LLCS 860-105752/4-A

Matrix: Water

Analysis Batch: 105950

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 105752

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	0.200	0.2380		mg/L		119	50 - 150	
Magnesium	0.200	0.2390		mg/L		120	50 - 150	
Potassium	0.500	0.5220		mg/L		104	50 - 150	
Sodium	0.500	0.5430		mg/L		109	50 - 150	
SiO2	1.07	1.198		mg/L		112	50 - 150	

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-105859/3

Matrix: Water

Analysis Batch: 105859

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			06/01/23 11:45	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			06/01/23 11:45	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			06/01/23 11:45	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			06/01/23 11:45	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			06/01/23 11:45	1

Lab Sample ID: LCS 860-105859/4

Matrix: Water

Analysis Batch: 105859

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Alkalinity	250	252.7		mg/L		101	85 - 115	

Lab Sample ID: LCSD 860-105859/5

Matrix: Water

Analysis Batch: 105859

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	Limit
Alkalinity	250	255.3		mg/L		102	85 - 115	1	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-28916-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-105757/1

Matrix: Water

Analysis Batch: 105757

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			06/01/23 10:48	1

Lab Sample ID: LCS 860-105757/2

Matrix: Water

Analysis Batch: 105757

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	1008		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-105757/3

Matrix: Water

Analysis Batch: 105757

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	1006		mg/L		101	80 - 120	0	10

Lab Sample ID: LLCS 860-105757/4

Matrix: Water

Analysis Batch: 105757

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	5.500		mg/L		110	50 - 150

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-28916-1 DU

Matrix: Water

Analysis Batch: 105857

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.1	HF	7.1		SU		0.1	20
Temperature	17.8	HF	17.4		Degrees C		2	20

QC Association Summary

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

Job ID: 880-28916-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 105688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28916-1	Levey Well	Total/NA	Water	8260C	
MB 860-105688/9	Method Blank	Total/NA	Water	8260C	
LCS 860-105688/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-105688/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 105602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28916-1	Levey Well	Total/NA	Water	300.0	
MB 860-105602/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105602/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105602/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105602/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 105603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28916-1	Levey Well	Total/NA	Water	300.0	
MB 860-105603/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105603/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105603/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105603/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 105823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28916-1 - RA	Levey Well	Total/NA	Water	300.0	
MB 860-105823/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105823/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105823/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105823/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 105824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-105824/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105824/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105824/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105824/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 105998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-105998/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105998/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105998/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105998/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 105999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28916-1	Levey Well	Total/NA	Water	300.0	
MB 860-105999/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105999/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105999/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

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

Job ID: 880-28916-1
SDG: Hobbs NM

HPLC/IC (Continued)

Analysis Batch: 105999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-105999/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 105752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28916-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-105752/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-105752/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-105752/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-105752/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 105950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28916-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	105752
880-28916-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	105752
MB 860-105752/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	105752
LCS 860-105752/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	105752
LCSD 860-105752/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	105752
LLCS 860-105752/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	105752

General Chemistry

Analysis Batch: 104468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28916-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 105757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28916-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-105757/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-105757/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-105757/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-105757/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 105857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28916-1	Levey Well	Total/NA	Water	SM 4500 H+ B	
880-28916-1 DU	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 105859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28916-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-105859/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-105859/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-105859/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

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

Job ID: 880-28916-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-28916-1

Date Collected: 05/30/23 14:00

Matrix: Water

Date Received: 05/30/23 15:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C	RA	1	105688	NA	EET HOU	06/01/23 10:26
Total/NA	Analysis	300.0		1	105602	A1S	EET HOU	06/01/23 00:38
Total/NA	Analysis	300.0		1	105603	A1S	EET HOU	06/01/23 00:38
Total/NA	Analysis	300.0		1	105823	A1S	EET HOU	06/01/23 16:29
Total/NA	Analysis	300.0		1	105999	WP	EET HOU	06/03/23 00:22
Total Recoverable	Prep	200.7			105752	MD	EET HOU	06/01/23 10:30
Total Recoverable	Analysis	200.7 Rev 4.4			105950	JDM	EET HOU	06/01/23 19:28
Total Recoverable	Prep	200.7			105752	MD	EET HOU	06/01/23 10:30
Total Recoverable	Analysis	200.7 Rev 4.4			105950	JDM	EET HOU	06/01/23 19:45
Total/NA	Analysis	SM 1030E			104468	SC	EET HOU	06/01/23 12:37
Total/NA	Analysis	SM 2320B		1	105859	TL	EET HOU	06/01/23 14:38
Total/NA	Analysis	SM 2540C		1	105757	OH	EET HOU	06/01/23 10:48
Total/NA	Analysis	SM 4500 H+ B		1	105857	TL	EET HOU	06/01/23 15:03

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: 880-28916-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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: 880-28916-1
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

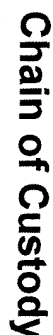
Sample Summary

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

Job ID: 880-28916-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28916-1	Levey Well	Water	05/30/23 14:00	05/30/23 15:54

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



Work Order No:

280916

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Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADAPT ☐ Other: _____

ANALYSIS REQUEST	Number of Containers	
	F, Cl, SO ₄ , B	
	C, Ca, K, Mg, Na, Si	
Work Order Notes	TAT starts the day received by the lab if received by 4:30pm	

Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number	VOCs	Anions:	Cations	pH	Alkalinity	TDS	Sample Comments	
Levey Well	GW	5-30-23	1400			7	X	X	X	X	X	X	24hr	
12/15/23 5-30-23														

880-26916 Chain of Custody

880-28916 Chain of Custody

Total	200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	8RCRA	13PPM	Texas 11
	TCLP / SPLP 6010	8RCRA	Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
			1631 / 245.1 / 7470 / 7471

Xenoco, a minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, but not analyzed. These terms will be enforced unless previously negotiated with Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, but not analyzed. These terms will be enforced unless previously negotiated with Xenoco.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		5/30/73			
		554			

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

Chain of Custody Record

 eurofins

Environment Test, ng

Client Information (Sub Contract Lab)				Lab PM: Kramer Jessica E-Mail: Jessica.Kramer@et.eurofins.com Phone: New Mexico		Carrier Tracking No(s): 880-7099.1 Page: Page 1 of 1	
Company: Eurofins Environment Testing South Centr Address: 4145 Greenbriar Dr City: Stafford State, Zip: TX, 77477 Phone: 281-240-4200(Tel) Email: Project #: 880000024 SSOW#:				Job #: 880-28918-1 Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Anichlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other _____ M Hexane N None O AsNO2 P Na2OAS Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)		Special Instructions/Note:	
Due Date Requested: 6/1/2023 TAT Requested (days):				Analysis Requested		Total Number of Containers:	
PO #:				Field Filtered Samples (Yes or No)		Cation Anion (MOD) Copy Analytes	
WFO #:				Perform MS/MSD (Yes or No)		2540C Calcd TDS	
Project #:				9260C/5030C (MOD) Full List VOCs		300_ORGFM/ NO2, NO3	
Site:				200_7200_2 FR (MOD) Custom List		300_ORGFM_280/ Br Cl F, SO4	
Sample Identification Client ID (Lab ID)				Sample Date		Sample Time	
Levey Well (880-28916-1)				5/30/23		14:00 Mountain	
Matrix (Wet/dry, Swast, Q-wast, etc.)				Sample Type (C=Comp, G=grab)		Preservation Code	
Water				Water		Water	
Sample Date				Sample Time		Matrix	
Sample Type				Preservation Code		Matrix	
Matrix				Sample Date		Sample Time	
Sample Type				Sample Date		Sample Time	
Matrix				Sample Date		Sample Time	
Sample Type				Sample Date		Sample Time	
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Sample Type				Sample Date		Sample Time	
Matrix				Sample Date		Sample Time	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-28916-1

SDG Number: Hobbs NM

Login Number: 28916

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: 880-28916-1

SDG Number: Hobbs NM

Login Number: 28916

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 05/31/23 07:49 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



ANALYTICAL REPORT

May 14, 2023

Ensolum, LLC

Sample Delivery Group: L1612559
Samples Received: 05/04/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

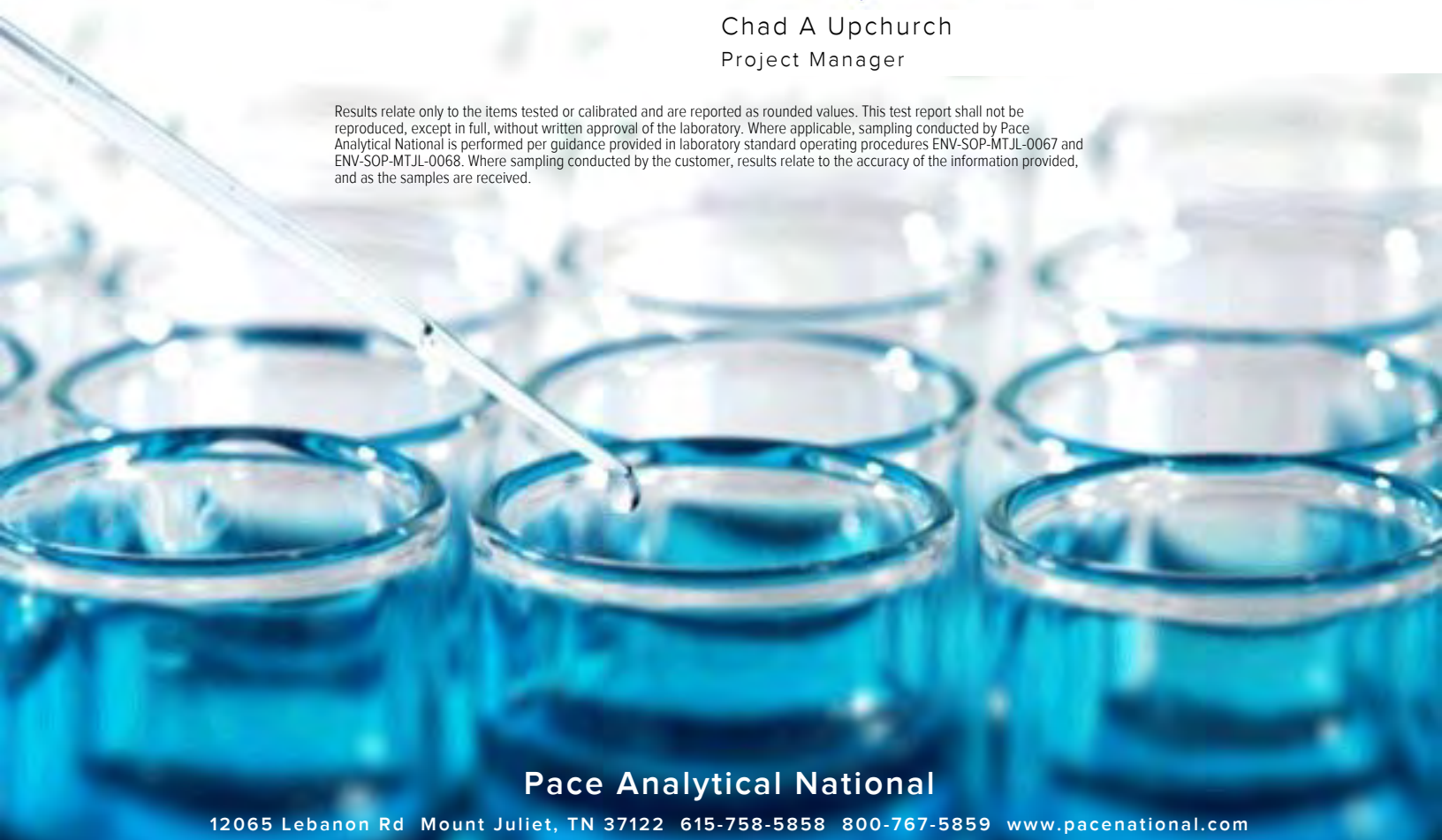


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
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Sr: Sample Results	9	
LEVEY WELL L1612559-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
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Gl: Glossary of Terms	16	⁸ Gl
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		¹⁰ Sc

LEVEY WELL L1612559-01 Air

Collected by
Shane Diller

Collected date/time
05/02/23 13:12

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2056023	100	05/09/23 01:34	05/09/23 01:34	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2058925	5000	05/12/23 12:11	05/12/23 12:11	DAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



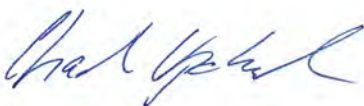
Chad A Upchurch
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

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: 05/14/2023 20:40					
Project Name: Levey Well		Laboratory Job Number: L1612559-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2056023 and WG2058925					
# 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: 05/14/2023 20:40				
Project Name: Levey Well			Laboratory Job Number: L1612559-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2056023 and WG2058925				
# 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: 05/14/2023 20:40	
Project Name: Levey Well		Laboratory Job Number: L1612559-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2056023 and WG2058925	
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: 05/02/23 13:12

L1612559

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	952	2260		100	WG2056023
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2056023
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2056023
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2056023
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2056023
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2056023
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2056023
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2056023
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2056023
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2056023
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2056023
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2056023
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2056023
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2056023
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2056023
Cyclohexane	110-82-7	84.20	1000	3440	25200	86800		5000	WG2058925
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2056023
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2056023
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2056023
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2056023
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2056023
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2056023
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2056023
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2056023
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2056023
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2056023
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2056023
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2056023
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2056023
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2056023
Ethanol	64-17-5	46.10	250	471	2260	4260		100	WG2056023
Ethylbenzene	100-41-4	106	20.0	86.7	63.7	276		100	WG2056023
4-Ethyltoluene	622-96-8	120	20.0	98.2	69.6	342		100	WG2056023
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2056023
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2056023
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2056023
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2056023
Heptane	142-82-5	100	1000	4090	17200	70300		5000	WG2058925
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2056023
n-Hexane	110-54-3	86.20	3150	11100	163000	575000		5000	WG2058925
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2056023
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2056023
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2056023
2-Butanone (MEK)	78-93-3	72.10	125	369	147	433		100	WG2056023
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2056023
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2056023
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2056023
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2056023
2-Propanol	67-63-0	60.10	125	307	2010	4940		100	WG2056023
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2056023
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2056023
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2056023
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2056023
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2056023
Toluene	108-88-3	92.10	50.0	188	92.3	348		100	WG2056023
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2056023



Collected date/time: 05/02/23 13:12

L1612559

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	WG2056023
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2056023
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2056023
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	40.8	200		100	WG2056023
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	21.2	104		100	WG2056023
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2056023
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2056023
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2056023
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2056023
m&p-Xylene	1330-20-7	106	40.0	173	150	650		100	WG2056023
o-Xylene	95-47-6	106	20.0	86.7	80.5	349		100	WG2056023
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	455000	1880000		100	WG2056023
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		89.8				WG2056023
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.4				WG2058925

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3922709-3 05/08/23 15:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.313	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

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Tc

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Al

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Sc

Volatile Organic Compounds (MS) by Method TO-15

L1612559-01

Method Blank (MB)

(MB) R3922709-3 05/08/23 15:20

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.166	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	94.1			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3922709-1 05/08/23 13:40 • (LCSD) R3922709-2 05/08/23 14:30

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	4.18	4.21	111	112	70.0-130			0.715	25
Allyl Chloride	3.75	4.57	4.13	122	110	70.0-130			10.1	25
Benzene	3.75	4.19	4.19	112	112	70.0-130			0.000	25
Benzyl Chloride	3.75	3.90	3.94	104	105	70.0-152			1.02	25
Bromodichloromethane	3.75	4.10	4.14	109	110	70.0-130			0.971	25
Bromoform	3.75	4.35	4.30	116	115	70.0-130			1.16	25
Bromomethane	3.75	4.29	4.22	114	113	70.0-130			1.65	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3922709-1 05/08/23 13:40 • (LCSD) R3922709-2 05/08/23 14:30

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 %
1,3-Butadiene	3.75	4.24	4.26	113	114	70.0-130			0.471	25
Carbon disulfide	3.75	4.09	4.09	109	109	70.0-130			0.000	25
Carbon tetrachloride	3.75	4.01	4.01	107	107	70.0-130			0.000	25
Chlorobenzene	3.75	4.16	4.24	111	113	70.0-130			1.90	25
Chloroethane	3.75	4.36	4.27	116	114	70.0-130			2.09	25
Chloroform	3.75	3.98	4.03	106	107	70.0-130			1.25	25
Chloromethane	3.75	4.05	4.19	108	112	70.0-130			3.40	25
2-Chlorotoluene	3.75	4.09	4.07	109	109	70.0-130			0.490	25
Dibromochloromethane	3.75	4.23	4.16	113	111	70.0-130			1.67	25
1,2-Dibromoethane	3.75	4.15	4.19	111	112	70.0-130			0.959	25
1,2-Dichlorobenzene	3.75	4.21	4.19	112	112	70.0-130			0.476	25
1,3-Dichlorobenzene	3.75	4.16	4.21	111	112	70.0-130			1.19	25
1,4-Dichlorobenzene	3.75	4.02	4.04	107	108	70.0-130			0.496	25
1,2-Dichloroethane	3.75	4.12	4.11	110	110	70.0-130			0.243	25
1,1-Dichloroethane	3.75	4.19	4.18	112	111	70.0-130			0.239	25
1,1-Dichloroethene	3.75	4.02	4.01	107	107	70.0-130			0.249	25
cis-1,2-Dichloroethene	3.75	4.04	4.12	108	110	70.0-130			1.96	25
trans-1,2-Dichloroethene	3.75	4.20	4.15	112	111	70.0-130			1.20	25
1,2-Dichloropropane	3.75	4.16	4.36	111	116	70.0-130			4.69	25
cis-1,3-Dichloropropene	3.75	4.22	4.24	113	113	70.0-130			0.473	25
trans-1,3-Dichloropropene	3.75	4.09	4.17	109	111	70.0-130			1.94	25
1,4-Dioxane	3.75	4.09	4.10	109	109	70.0-140			0.244	25
Ethanol	3.75	4.15	4.02	111	107	55.0-148			3.18	25
Ethylbenzene	3.75	4.47	4.43	119	118	70.0-130			0.899	25
4-Ethyltoluene	3.75	4.09	4.09	109	109	70.0-130			0.000	25
Trichlorofluoromethane	3.75	4.09	4.02	109	107	70.0-130			1.73	25
Dichlorodifluoromethane	3.75	3.36	3.40	89.6	90.7	64.0-139			1.18	25
1,1,2-Trichlorotrifluoroethane	3.75	4.00	3.98	107	106	70.0-130			0.501	25
1,2-Dichlorotetrafluoroethane	3.75	4.02	4.13	107	110	70.0-130			2.70	25
Hexachloro-1,3-butadiene	3.75	4.43	4.36	118	116	70.0-151			1.59	25
Isopropylbenzene	3.75	4.51	4.47	120	119	70.0-130			0.891	25
Methylene Chloride	3.75	4.09	4.11	109	110	70.0-130			0.488	25
Methyl Butyl Ketone	3.75	4.03	4.08	107	109	70.0-149			1.23	25
Methyl Ethyl Ketone	3.75	4.03	4.14	107	110	70.0-130			2.69	25
4-Methyl-2-pentanone (MIBK)	3.75	4.16	4.11	111	110	70.0-139			1.21	25
Methyl Methacrylate	3.75	4.09	4.04	109	108	70.0-130			1.23	25
MTBE	3.75	4.05	4.08	108	109	70.0-130			0.738	25
Naphthalene	3.75	4.20	4.18	112	111	70.0-159			0.477	25
2-Propanol	3.75	4.18	4.25	111	113	70.0-139			1.66	25
Propene	3.75	4.05	4.08	108	109	64.0-144			0.738	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3922709-1 05/08/23 13:40 • (LCSD) R3922709-2 05/08/23 14:30

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	4.39	4.45	117	119	70.0-130			1.36	25
1,1,2,2-Tetrachloroethane	3.75	4.09	4.14	109	110	70.0-130			1.22	25
Tetrachloroethylene	3.75	4.32	4.32	115	115	70.0-130			0.000	25
Tetrahydrofuran	3.75	4.16	4.24	111	113	70.0-137			1.90	25
Toluene	3.75	4.24	4.26	113	114	70.0-130			0.471	25
1,2,4-Trichlorobenzene	3.75	4.39	4.46	117	119	70.0-160			1.58	25
1,1,1-Trichloroethane	3.75	4.01	4.10	107	109	70.0-130			2.22	25
1,1,2-Trichloroethane	3.75	4.21	4.24	112	113	70.0-130			0.710	25
Trichloroethylene	3.75	4.15	4.16	111	111	70.0-130			0.241	25
1,2,4-Trimethylbenzene	3.75	4.01	4.03	107	107	70.0-130			0.498	25
1,3,5-Trimethylbenzene	3.75	4.01	4.03	107	107	70.0-130			0.498	25
2,2,4-Trimethylpentane	3.75	4.23	4.23	113	113	70.0-130			0.000	25
Vinyl chloride	3.75	4.22	4.19	113	112	70.0-130			0.713	25
Vinyl Bromide	3.75	4.22	4.12	113	110	70.0-130			2.40	25
Vinyl acetate	3.75	4.11	4.30	110	115	70.0-130			4.52	25
m&p-Xylene	7.50	8.82	8.82	118	118	70.0-130			0.000	25
o-Xylene	3.75	4.38	4.46	117	119	70.0-130			1.81	25
TPH (GC/MS) Low Fraction	188	186	188	98.9	100	70.0-130			1.07	25
(S) 1,4-Bromofluorobenzene				91.5	94.3	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3924455-3 05/12/23 10:26

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	94.5			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3924455-1 05/12/23 08:59 • (LCSD) R3924455-2 05/12/23 09:43

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	3.73	3.78	99.5	101	70.0-130			1.33	25
Heptane	3.75	4.06	4.17	108	111	70.0-130			2.67	25
n-Hexane	3.75	3.86	3.92	103	105	70.0-130			1.54	25
(S) 1,4-Bromofluorobenzene				97.5	96.4	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

Released to Imaging: 3/21/2024 4:14:24 PM



ANALYTICAL REPORT

May 17, 2023

Ensolum, LLC

Sample Delivery Group: L1612576

Samples Received: 05/04/2023

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	⁶ Sr
LEVEY WELL L1612576-01	9	
LEVEY WELL L1612576-02	11	
LEVEY WELL L1612576-03	13	⁷ Qc
LEVEY WELL L1612576-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
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Al: Accreditations & Locations	27	¹⁰ Sc
Sc: Sample Chain of Custody	28	

LEVEY WELL L1612576-01 Air

Collected by
Shane Diller

Collected date/time
05/01/23 09:38

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2059459	10000	05/14/23 03:40	05/14/23 03:40	DBB	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

5
Tr

6
Sr

7
Qc

8
Gl

9
Al

10
Sc

LEVEY WELL L1612576-02 Air

Collected by
Shane Diller

Collected date/time
05/01/23 10:46

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2056023	100	05/09/23 03:14	05/09/23 03:14	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2057399	100	05/10/23 17:07	05/10/23 17:07	SDS	Mt. Juliet, TN

LEVEY WELL L1612576-03 Air

Collected by
Shane Diller

Collected date/time
05/01/23 11:54

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2056023	100	05/09/23 04:06	05/09/23 04:06	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2057399	100	05/10/23 17:36	05/10/23 17:36	SDS	Mt. Juliet, TN

LEVEY WELL L1612576-04 Air

Collected by
Shane Diller

Collected date/time
05/01/23 13:00

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2056023	100	05/09/23 04:56	05/09/23 04:56	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

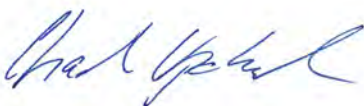
- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

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: 05/17/2023 14:03					
Project Name: Levey Well		Laboratory Job Number: L1612576-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2056023, WG2057399 and WG2059459					
# 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: 05/17/2023 14:03					
Project Name: Levey Well		Laboratory Job Number: L1612576-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2056023, WG2057399 and WG2059459					
# 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: 05/17/2023 14:03	
Project Name: Levey Well		Laboratory Job Number: L1612576-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2056023, WG2057399 and WG2059459	
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: 05/01/23 09:38

L1612576

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	12500	29700	24400	58000		10000	WG2059459
Allyl chloride	107-05-1	76.53	2000	6260	ND	ND		10000	WG2059459
Benzene	71-43-2	78.10	2000	6390	ND	ND		10000	WG2059459
Benzyl Chloride	100-44-7	127	2000	10400	ND	ND		10000	WG2059459
Bromodichloromethane	75-27-4	164	2000	13400	ND	ND		10000	WG2059459
Bromoform	75-25-2	253	6000	62100	ND	ND		10000	WG2059459
Bromomethane	74-83-9	94.90	2000	7760	ND	ND		10000	WG2059459
1,3-Butadiene	106-99-0	54.10	20000	44300	ND	ND		10000	WG2059459
Carbon disulfide	75-15-0	76.10	2000	6220	ND	ND		10000	WG2059459
Carbon tetrachloride	56-23-5	154	2000	12600	ND	ND		10000	WG2059459
Chlorobenzene	108-90-7	113	2000	9240	ND	ND		10000	WG2059459
Chloroethane	75-00-3	64.50	2000	5280	ND	ND		10000	WG2059459
Chloroform	67-66-3	119	2000	9730	ND	ND		10000	WG2059459
Chloromethane	74-87-3	50.50	2000	4130	ND	ND		10000	WG2059459
2-Chlorotoluene	95-49-8	126	2000	10300	ND	ND		10000	WG2059459
Cyclohexane	110-82-7	84.20	2000	6890	35800	123000		10000	WG2059459
Dibromochloromethane	124-48-1	208	2000	17000	ND	ND		10000	WG2059459
1,2-Dibromoethane	106-93-4	188	2000	15400	ND	ND		10000	WG2059459
1,2-Dichlorobenzene	95-50-1	147	2000	12000	ND	ND		10000	WG2059459
1,3-Dichlorobenzene	541-73-1	147	2000	12000	ND	ND		10000	WG2059459
1,4-Dichlorobenzene	106-46-7	147	2000	12000	ND	ND		10000	WG2059459
1,2-Dichloroethane	107-06-2	99	2000	8100	ND	ND		10000	WG2059459
1,1-Dichloroethane	75-34-3	98	2000	8020	ND	ND		10000	WG2059459
1,1-Dichloroethene	75-35-4	96.90	2000	7930	ND	ND		10000	WG2059459
cis-1,2-Dichloroethene	156-59-2	96.90	2000	7930	ND	ND		10000	WG2059459
trans-1,2-Dichloroethene	156-60-5	96.90	2000	7930	ND	ND		10000	WG2059459
1,2-Dichloropropane	78-87-5	113	2000	9240	ND	ND		10000	WG2059459
cis-1,3-Dichloropropene	10061-01-5	111	2000	9080	ND	ND		10000	WG2059459
trans-1,3-Dichloropropene	10061-02-6	111	2000	9080	ND	ND		10000	WG2059459
1,4-Dioxane	123-91-1	88.10	2000	7210	ND	ND		10000	WG2059459
Ethanol	64-17-5	46.10	25000	47100	52500	99000		10000	WG2059459
Ethylbenzene	100-41-4	106	2000	8670	2940	12700		10000	WG2059459
4-Ethyltoluene	622-96-8	120	2000	9820	ND	ND		10000	WG2059459
Trichlorofluoromethane	75-69-4	137.40	2000	11200	ND	ND		10000	WG2059459
Dichlorodifluoromethane	75-71-8	120.92	2000	9890	ND	ND		10000	WG2059459
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	2000	15300	ND	ND		10000	WG2059459
1,2-Dichlorotetrafluoroethane	76-14-2	171	2000	14000	ND	ND		10000	WG2059459
Heptane	142-82-5	100	2000	8180	23600	96500		10000	WG2059459
Hexachloro-1,3-butadiene	87-68-3	261	6300	67300	ND	ND		10000	WG2059459
n-Hexane	110-54-3	86.20	6300	22200	482000	1700000		10000	WG2059459
Isopropylbenzene	98-82-8	120.20	2000	9830	ND	ND		10000	WG2059459
Methylene Chloride	75-09-2	84.90	2000	6940	ND	ND		10000	WG2059459
Methyl Butyl Ketone	591-78-6	100	12500	51100	ND	ND		10000	WG2059459
2-Butanone (MEK)	78-93-3	72.10	12500	36900	ND	ND		10000	WG2059459
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	12500	51200	ND	ND		10000	WG2059459
Methyl methacrylate	80-62-6	100.12	2000	8190	ND	ND		10000	WG2059459
MTBE	1634-04-4	88.10	2000	7210	ND	ND		10000	WG2059459
Naphthalene	91-20-3	128	6300	33000	ND	ND		10000	WG2059459
2-Propanol	67-63-0	60.10	12500	30700	168000	413000		10000	WG2059459
Propene	115-07-1	42.10	12500	21500	ND	ND		10000	WG2059459
Styrene	100-42-5	104	2000	8510	ND	ND		10000	WG2059459
1,1,2,2-Tetrachloroethane	79-34-5	168	2000	13700	ND	ND		10000	WG2059459
Tetrachloroethylene	127-18-4	166	2000	13600	ND	ND		10000	WG2059459
Tetrahydrofuran	109-99-9	72.10	2000	5900	ND	ND		10000	WG2059459
Toluene	108-88-3	92.10	5000	18800	ND	ND		10000	WG2059459
1,2,4-Trichlorobenzene	120-82-1	181	6300	46600	ND	ND		10000	WG2059459



Collected date/time: 05/01/23 09:38

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	2000	10900	ND	ND		10000	WG2059459
1,1,2-Trichloroethane	79-00-5	133	2000	10900	ND	ND		10000	WG2059459
Trichloroethylene	79-01-6	131	2000	10700	ND	ND		10000	WG2059459
1,2,4-Trimethylbenzene	95-63-6	120	2000	9820	ND	ND		10000	WG2059459
1,3,5-Trimethylbenzene	108-67-8	120	2000	9820	ND	ND		10000	WG2059459
2,2,4-Trimethylpentane	540-84-1	114.22	2000	9340	ND	ND		10000	WG2059459
Vinyl chloride	75-01-4	62.50	2000	5110	ND	ND		10000	WG2059459
Vinyl Bromide	593-60-2	106.95	2000	8750	ND	ND		10000	WG2059459
Vinyl acetate	108-05-4	86.10	2000	7040	ND	ND		10000	WG2059459
m&p-Xylene	1330-20-7	106	4000	17300	9580	41500		10000	WG2059459
o-Xylene	95-47-6	106	2000	8670	ND	ND		10000	WG2059459
TPH (GC/MS) Low Fraction	8006-61-9	101	2000000	8260000	ND	ND		10000	WG2059459
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.9				WG2059459

Sample Narrative:

L1612576-01 WG2059459: Non-target compounds too high to run at a lower dilution.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 05/01/23 10:46

L1612576

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	253	601		100	WG2056023
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2056023
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2056023
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2056023
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2056023
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2056023
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2056023
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2056023
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2056023
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2056023
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2056023
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2056023
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2056023
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2056023
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2056023
Cyclohexane	110-82-7	84.20	20.0	68.9	91.3	314		100	WG2056023
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2056023
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2056023
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2056023
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2056023
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2056023
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2056023
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2056023
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2056023
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2056023
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2056023
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2056023
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2056023
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2056023
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2056023
Ethanol	64-17-5	46.10	250	471	1480	2790		100	WG2056023
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2056023
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2056023
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2056023
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2056023
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2056023
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2056023
Heptane	142-82-5	100	20.0	81.8	97.4	398		100	WG2056023
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2056023
n-Hexane	110-54-3	86.20	63.0	222	3240	11400		100	WG2057399
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2056023
Methylene Chloride	75-09-2	84.90	20.0	69.4	39.4	137		100	WG2056023
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2056023
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2056023
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2056023
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2056023
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2056023
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2056023
2-Propanol	67-63-0	60.10	125	307	1860	4570		100	WG2056023
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2056023
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2056023
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2056023
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2056023
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2056023
Toluene	108-88-3	92.10	50.0	188	ND	ND		100	WG2056023
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2056023



Collected date/time: 05/01/23 10:46

L1612576

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	WG2056023
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2056023
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2056023
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2056023
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2056023
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2056023
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2056023
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2056023
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2056023
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG2056023
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2056023
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2056023
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		89.4				WG2056023
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.0				WG2057399

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 05/01/23 11:54

L1612576

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	2600	6180		100	WG2056023
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2056023
Benzene	71-43-2	78.10	20.0	63.9	52.1	166		100	WG2056023
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2056023
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2056023
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2056023
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2056023
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2056023
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2056023
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2056023
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2056023
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2056023
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2056023
Chloromethane	74-87-3	50.50	20.0	41.3	69.0	143		100	WG2056023
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2056023
Cyclohexane	110-82-7	84.20	20.0	68.9	ND	ND		100	WG2056023
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2056023
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2056023
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2056023
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2056023
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2056023
1,2-Dichloroethane	107-06-2	99	20.0	81.0	103	417		100	WG2056023
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2056023
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2056023
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2056023
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2056023
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2056023
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2056023
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2056023
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2056023
Ethanol	64-17-5	46.10	250	471	3180	6000		100	WG2056023
Ethylbenzene	100-41-4	106	20.0	86.7	30.5	132		100	WG2056023
4-Ethyltoluene	622-96-8	120	20.0	98.2	125	613		100	WG2056023
Trichlorofluoromethane	75-69-4	137.40	20.0	112	21.9	123		100	WG2056023
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	39.8	197		100	WG2056023
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2056023
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2056023
Heptane	142-82-5	100	20.0	81.8	75.9	310		100	WG2056023
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2056023
n-Hexane	110-54-3	86.20	63.0	222	1530	5390		100	WG2057399
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2056023
Methylene Chloride	75-09-2	84.90	20.0	69.4	172	597		100	WG2056023
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2056023
2-Butanone (MEK)	78-93-3	72.10	125	369	371	1090		100	WG2056023
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2056023
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2056023
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2056023
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2056023
2-Propanol	67-63-0	60.10	125	307	353	868		100	WG2056023
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2056023
Styrene	100-42-5	104	20.0	85.1	50.6	215		100	WG2056023
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2056023
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2056023
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2056023
Toluene	108-88-3	92.10	50.0	188	1000	3770		100	WG2056023
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2056023



Collected date/time: 05/01/23 11:54

L1612576

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	WG2056023
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2056023
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2056023
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	180	883		100	WG2056023
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	53.9	265		100	WG2056023
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2056023
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2056023
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2056023
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2056023
m&p-Xylene	1330-20-7	106	40.0	173	93.8	407		100	WG2056023
o-Xylene	95-47-6	106	20.0	86.7	33.8	147		100	WG2056023
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2056023
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		90.2				WG2056023
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.5				WG2057399

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 05/01/23 13:00

L1612576

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	442	1050		100	WG2056023
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2056023
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2056023
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2056023
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2056023
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2056023
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2056023
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2056023
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2056023
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2056023
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2056023
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2056023
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2056023
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2056023
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2056023
Cyclohexane	110-82-7	84.20	20.0	68.9	ND	ND		100	WG2056023
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2056023
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2056023
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2056023
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2056023
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2056023
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2056023
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2056023
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2056023
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2056023
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2056023
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2056023
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2056023
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2056023
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2056023
Ethanol	64-17-5	46.10	250	471	2580	4860		100	WG2056023
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2056023
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2056023
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2056023
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2056023
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2056023
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2056023
Heptane	142-82-5	100	20.0	81.8	353	1440		100	WG2056023
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2056023
n-Hexane	110-54-3	86.20	63.0	222	3210	11300		100	WG2056023
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2056023
Methylene Chloride	75-09-2	84.90	20.0	69.4	67.3	234		100	WG2056023
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2056023
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2056023
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2056023
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2056023
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2056023
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2056023
2-Propanol	67-63-0	60.10	125	307	1800	4420		100	WG2056023
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2056023
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2056023
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2056023
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2056023
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2056023
Toluene	108-88-3	92.10	50.0	188	64.2	242		100	WG2056023
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2056023



Collected date/time: 05/01/23 13:00

L1612576

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	WG2056023
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2056023
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2056023
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2056023
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2056023
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2056023
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2056023
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2056023
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2056023
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG2056023
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2056023
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2056023
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		88.6				WG2056023

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

L1612576-02.03.04

Method Blank (MB)

(MB) R3922709-3 05/08/23 15:20

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.313	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

Method Blank (MB)

(MB) R3922709-3 05/08/23 15:20

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	0.166	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	94.1			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3922709-1 05/08/23 13:40 • (LCSD) R3922709-2 05/08/23 14:30

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	4.18	4.21	111	112	70.0-130			0.715	25
Allyl chloride	3.75	4.57	4.13	122	110	70.0-130			10.1	25
Benzene	3.75	4.19	4.19	112	112	70.0-130			0.000	25
Benzyl Chloride	3.75	3.90	3.94	104	105	70.0-152			1.02	25

Volatile Organic Compounds (MS) by Method TO-15

L1612576-02.03.04

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3922709-1 05/08/23 13:40 • (LCSD) R3922709-2 05/08/23 14:30

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.10	4.14	109	110	70.0-130			0.971	25
Bromoform	3.75	4.35	4.30	116	115	70.0-130			1.16	25
Bromomethane	3.75	4.29	4.22	114	113	70.0-130			1.65	25
1,3-Butadiene	3.75	4.24	4.26	113	114	70.0-130			0.471	25
Carbon disulfide	3.75	4.09	4.09	109	109	70.0-130			0.000	25
Carbon tetrachloride	3.75	4.01	4.01	107	107	70.0-130			0.000	25
Chlorobenzene	3.75	4.16	4.24	111	113	70.0-130			1.90	25
Chloroethane	3.75	4.36	4.27	116	114	70.0-130			2.09	25
Chloroform	3.75	3.98	4.03	106	107	70.0-130			1.25	25
Chloromethane	3.75	4.05	4.19	108	112	70.0-130			3.40	25
2-Chlorotoluene	3.75	4.09	4.07	109	109	70.0-130			0.490	25
Cyclohexane	3.75	4.08	4.09	109	109	70.0-130			0.245	25
Dibromochloromethane	3.75	4.23	4.16	113	111	70.0-130			1.67	25
1,2-Dibromoethane	3.75	4.15	4.19	111	112	70.0-130			0.959	25
1,2-Dichlorobenzene	3.75	4.21	4.19	112	112	70.0-130			0.476	25
1,3-Dichlorobenzene	3.75	4.16	4.21	111	112	70.0-130			1.19	25
1,4-Dichlorobenzene	3.75	4.02	4.04	107	108	70.0-130			0.496	25
1,2-Dichloroethane	3.75	4.12	4.11	110	110	70.0-130			0.243	25
1,1-Dichloroethane	3.75	4.19	4.18	112	111	70.0-130			0.239	25
1,1-Dichloroethene	3.75	4.02	4.01	107	107	70.0-130			0.249	25
cis-1,2-Dichloroethene	3.75	4.04	4.12	108	110	70.0-130			1.96	25
trans-1,2-Dichloroethene	3.75	4.20	4.15	112	111	70.0-130			1.20	25
1,2-Dichloropropane	3.75	4.16	4.36	111	116	70.0-130			4.69	25
cis-1,3-Dichloropropene	3.75	4.22	4.24	113	113	70.0-130			0.473	25
trans-1,3-Dichloropropene	3.75	4.09	4.17	109	111	70.0-130			1.94	25
1,4-Dioxane	3.75	4.09	4.10	109	109	70.0-140			0.244	25
Ethanol	3.75	4.15	4.02	111	107	55.0-148			3.18	25
Ethylbenzene	3.75	4.47	4.43	119	118	70.0-130			0.899	25
4-Ethyltoluene	3.75	4.09	4.09	109	109	70.0-130			0.000	25
Trichlorofluoromethane	3.75	4.09	4.02	109	107	70.0-130			1.73	25
Dichlorodifluoromethane	3.75	3.36	3.40	89.6	90.7	64.0-139			1.18	25
1,1,2-Trichlorotrifluoroethane	3.75	4.00	3.98	107	106	70.0-130			0.501	25
1,2-Dichlorotetrafluoroethane	3.75	4.02	4.13	107	110	70.0-130			2.70	25
Heptane	3.75	4.00	4.07	107	109	70.0-130			1.73	25
Hexachloro-1,3-butadiene	3.75	4.43	4.36	118	116	70.0-151			1.59	25
n-Hexane	3.75	4.12	4.11	110	110	70.0-130			0.243	25
Isopropylbenzene	3.75	4.51	4.47	120	119	70.0-130			0.891	25
Methylene Chloride	3.75	4.09	4.11	109	110	70.0-130			0.488	25
Methyl Butyl Ketone	3.75	4.03	4.08	107	109	70.0-149			1.23	25
2-Butanone (MEK)	3.75	4.03	4.14	107	110	70.0-130			2.69	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3922709-1 05/08/23 13:40 • (LCSD) R3922709-2 05/08/23 14:30

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	4.16	4.11	111	110	70.0-139			1.21	25
Methyl methacrylate	3.75	4.09	4.04	109	108	70.0-130			1.23	25
MTBE	3.75	4.05	4.08	108	109	70.0-130			0.738	25
Naphthalene	3.75	4.20	4.18	112	111	70.0-159			0.477	25
2-Propanol	3.75	4.18	4.25	111	113	70.0-139			1.66	25
Propene	3.75	4.05	4.08	108	109	64.0-144			0.738	25
Styrene	3.75	4.39	4.45	117	119	70.0-130			1.36	25
1,1,2,2-Tetrachloroethane	3.75	4.09	4.14	109	110	70.0-130			1.22	25
Tetrachloroethylene	3.75	4.32	4.32	115	115	70.0-130			0.000	25
Tetrahydrofuran	3.75	4.16	4.24	111	113	70.0-137			1.90	25
Toluene	3.75	4.24	4.26	113	114	70.0-130			0.471	25
1,2,4-Trichlorobenzene	3.75	4.39	4.46	117	119	70.0-160			1.58	25
1,1,1-Trichloroethane	3.75	4.01	4.10	107	109	70.0-130			2.22	25
1,1,2-Trichloroethane	3.75	4.21	4.24	112	113	70.0-130			0.710	25
Trichloroethylene	3.75	4.15	4.16	111	111	70.0-130			0.241	25
1,2,4-Trimethylbenzene	3.75	4.01	4.03	107	107	70.0-130			0.498	25
1,3,5-Trimethylbenzene	3.75	4.01	4.03	107	107	70.0-130			0.498	25
2,2,4-Trimethylpentane	3.75	4.23	4.23	113	113	70.0-130			0.000	25
Vinyl chloride	3.75	4.22	4.19	113	112	70.0-130			0.713	25
Vinyl Bromide	3.75	4.22	4.12	113	110	70.0-130			2.40	25
Vinyl acetate	3.75	4.11	4.30	110	115	70.0-130			4.52	25
m&p-Xylene	7.50	8.82	8.82	118	118	70.0-130			0.000	25
o-Xylene	3.75	4.38	4.46	117	119	70.0-130			1.81	25
TPH (GC/MS) Low Fraction	188	186	188	98.9	100	70.0-130			1.07	25
(S) 1,4-Bromofluorobenzene				91.5	94.3	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1612576-02.03](#)

Method Blank (MB)

(MB) R3923214-3 05/10/23 11:25

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) R3923214-1 05/10/23 09:06 • (LCSD) R3923214-2 05/10/23 09:37

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	3.80	3.84	101	102	70.0-130			1.05	25
(S) 1,4-Bromofluorobenzene				100	101	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3925670-3 05/13/23 08:56

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
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.380	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

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

L1612576-01

Method Blank (MB)

(MB) R3925670-3 05/13/23 08:56

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	0.271	IL	0.264	1.25
Propene	0.154	IL	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	0.112	IL	0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	91.6			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3925670-1 05/13/23 07:18 • (LCSD) R3925670-2 05/13/23 08:08

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	3.83	3.80	102	101	70.0-130			0.786	25
Allyl chloride	3.75	3.80	4.02	101	107	70.0-130			5.63	25
Benzene	3.75	3.92	3.85	105	103	70.0-130			1.80	25
Benzyl Chloride	3.75	3.62	3.57	96.5	95.2	70.0-152			1.39	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3925670-1 05/13/23 07:18 • (LCSD) R3925670-2 05/13/23 08:08

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.87	3.82	103	102	70.0-130			1.30	25
Bromoform	3.75	4.46	4.37	119	117	70.0-130			2.04	25
Bromomethane	3.75	4.18	4.14	111	110	70.0-130			0.962	25
1,3-Butadiene	3.75	3.99	4.05	106	108	70.0-130			1.49	25
Carbon disulfide	3.75	3.78	3.79	101	101	70.0-130			0.264	25
Carbon tetrachloride	3.75	3.75	3.79	100	101	70.0-130			1.06	25
Chlorobenzene	3.75	3.97	3.93	106	105	70.0-130			1.01	25
Chloroethane	3.75	4.21	4.12	112	110	70.0-130			2.16	25
Chloroform	3.75	3.68	3.67	98.1	97.9	70.0-130			0.272	25
Chloromethane	3.75	3.82	3.65	102	97.3	70.0-130			4.55	25
2-Chlorotoluene	3.75	3.80	3.71	101	98.9	70.0-130			2.40	25
Cyclohexane	3.75	3.84	3.87	102	103	70.0-130			0.778	25
Dibromochloromethane	3.75	4.20	4.07	112	109	70.0-130			3.14	25
1,2-Dibromoethane	3.75	4.04	3.91	108	104	70.0-130			3.27	25
1,2-Dichlorobenzene	3.75	3.94	3.93	105	105	70.0-130			0.254	25
1,3-Dichlorobenzene	3.75	3.93	3.87	105	103	70.0-130			1.54	25
1,4-Dichlorobenzene	3.75	3.76	3.79	100	101	70.0-130			0.795	25
1,2-Dichloroethane	3.75	3.82	3.80	102	101	70.0-130			0.525	25
1,1-Dichloroethane	3.75	3.72	3.76	99.2	100	70.0-130			1.07	25
1,1-Dichloroethene	3.75	3.69	3.68	98.4	98.1	70.0-130			0.271	25
cis-1,2-Dichloroethene	3.75	3.68	3.72	98.1	99.2	70.0-130			1.08	25
trans-1,2-Dichloroethene	3.75	3.73	3.77	99.5	101	70.0-130			1.07	25
1,2-Dichloropropane	3.75	3.87	3.87	103	103	70.0-130			0.000	25
cis-1,3-Dichloropropene	3.75	4.04	3.90	108	104	70.0-130			3.53	25
trans-1,3-Dichloropropene	3.75	3.90	3.82	104	102	70.0-130			2.07	25
1,4-Dioxane	3.75	3.74	3.71	99.7	98.9	70.0-140			0.805	25
Ethanol	3.75	3.92	3.84	105	102	55.0-148			2.06	25
Ethylbenzene	3.75	4.20	4.14	112	110	70.0-130			1.44	25
4-Ethyltoluene	3.75	3.89	3.83	104	102	70.0-130			1.55	25
Trichlorofluoromethane	3.75	3.91	3.91	104	104	70.0-130			0.000	25
Dichlorodifluoromethane	3.75	2.88	2.88	76.8	76.8	64.0-139			0.000	25
1,1,2-Trichlorotrifluoroethane	3.75	3.75	3.77	100	101	70.0-130			0.532	25
1,2-Dichlorotetrafluoroethane	3.75	3.69	3.74	98.4	99.7	70.0-130			1.35	25
Heptane	3.75	3.88	3.80	103	101	70.0-130			2.08	25
Hexachloro-1,3-butadiene	3.75	4.16	4.05	111	108	70.0-151			2.68	25
n-Hexane	3.75	3.88	3.87	103	103	70.0-130			0.258	25
Isopropylbenzene	3.75	4.23	4.12	113	110	70.0-130			2.63	25
Methylene Chloride	3.75	3.72	3.69	99.2	98.4	70.0-130			0.810	25
Methyl Butyl Ketone	3.75	3.80	3.71	101	98.9	70.0-149			2.40	25
2-Butanone (MEK)	3.75	3.75	3.67	100	97.9	70.0-130			2.16	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3925670-1 05/13/23 07:18 • (LCSD) R3925670-2 05/13/23 08:08

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 %
4-Methyl-2-pentanone (MIBK)	3.75	3.83	3.80	102	101	70.0-139			0.786	25
Methyl methacrylate	3.75	4.04	3.93	108	105	70.0-130			2.76	25
MTBE	3.75	3.72	3.74	99.2	99.7	70.0-130			0.536	25
Naphthalene	3.75	4.00	3.90	107	104	70.0-159			2.53	25
2-Propanol	3.75	3.97	3.96	106	106	70.0-139			0.252	25
Propene	3.75	3.67	3.60	97.9	96.0	64.0-144			1.93	25
Styrene	3.75	4.30	4.23	115	113	70.0-130			1.64	25
1,1,2,2-Tetrachloroethane	3.75	3.70	3.69	98.7	98.4	70.0-130			0.271	25
Tetrachloroethylene	3.75	4.26	4.16	114	111	70.0-130			2.38	25
Tetrahydrofuran	3.75	3.99	3.90	106	104	70.0-137			2.28	25
Toluene	3.75	4.81	4.82	128	129	70.0-130			0.208	25
1,2,4-Trichlorobenzene	3.75	4.15	4.13	111	110	70.0-160			0.483	25
1,1,1-Trichloroethane	3.75	3.71	3.70	98.9	98.7	70.0-130			0.270	25
1,1,2-Trichloroethane	3.75	4.02	3.89	107	104	70.0-130			3.29	25
Trichloroethylene	3.75	3.88	3.78	103	101	70.0-130			2.61	25
1,2,4-Trimethylbenzene	3.75	3.77	3.75	101	100	70.0-130			0.532	25
1,3,5-Trimethylbenzene	3.75	3.70	3.69	98.7	98.4	70.0-130			0.271	25
2,2,4-Trimethylpentane	3.75	3.89	3.98	104	106	70.0-130			2.29	25
Vinyl chloride	3.75	4.00	4.08	107	109	70.0-130			1.98	25
Vinyl Bromide	3.75	4.22	4.19	113	112	70.0-130			0.713	25
Vinyl acetate	3.75	3.89	3.85	104	103	70.0-130			1.03	25
m&p-Xylene	7.50	8.64	8.58	115	114	70.0-130			0.697	25
o-Xylene	3.75	4.21	4.15	112	111	70.0-130			1.44	25
TPH (GC/MS) Low Fraction	188	176	182	93.6	96.8	70.0-130			3.35	25
(S) 1,4-Bromofluorobenzene				90.4	91.1	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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.

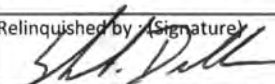
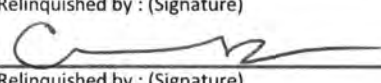
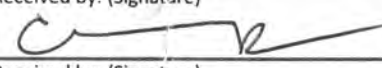
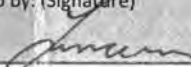


Company Name/Address: Ensolum, LLC 601 N Marienfeld Street, Ste. 400 Midland, TX 79701			Billing Information: Accounts Payable 601 N Marienfeld Street, Ste. 400 Midland, TX 79701			Analysis 			Chain of Custody Page <u>1</u> of <u>1</u>  PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf										
Report To: Beaux Jennings			Email To: bjennings@ensolum.com			TO-15 Summa			SDG # <u>61102534</u>										
Project Description: <u>Levey Well</u>		City/State Collected: <u>Hobbs NM</u>		Please Circle: PT MT <u>CT</u> ET					Table # <u>I002</u>										
Phone: 210-219-8858		Client Project # <u>0381417001</u>		Lab Project # ENSOLUMTX-SUMMA					Acctnum: ENSOLUMTX										
Collected by (print): <u>Shane Diller</u>		Site/Facility ID # <u>0381417001</u>		P.O. # <u>0381417001</u>					Template: T180734										
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☒ Three Day ☐ Next Day ☐ Five Day ☐ Two Day		Date Results Needed		Prelogin: P994075 PM: 3564 - Chad A Upchurch PB: <u>CSW 04/20/23</u>													
Sample ID		Can #		Flow Cont. #		Date		Time		Initial		Final		Collection		Canister Pressure/Vacuum		Shipped Via: FedEX Ground	
<u>Levey Well</u>		<u>012243</u>		<u>012558</u>		<u>5-1-23</u>		<u>0938</u>		<u>-26</u>		<u>0</u>		<u>X</u>		<u>0</u>		<u>-01</u>	
<u>Levey Well</u>		<u>22028 8514</u>		<u>02088100</u>		<u>5-1-23</u>		<u>1046</u>		<u>-23</u>		<u>0</u>		<u>X</u>		<u>0</u>		<u>-02</u>	
<u>Levey Well</u>		<u>12603</u>		<u>22460</u>		<u>5-1-23</u>		<u>1154</u>		<u>-24</u>		<u>0</u>		<u>X</u>		<u>0</u>		<u>-03</u>	
<u>Levey Well</u>		<u>22835</u>		<u>21829</u>		<u>5-1-23</u>		<u>1300</u>		<u>-25</u>		<u>0</u>		<u>X</u>		<u>0</u>		<u>-04</u>	
<u>PUFE</u>		<u>5-1-23</u>																	

Sample Receipt Checklist

COC Seal Present/Intact: ☒ N If Applicable
 COC Signed/Accurate: ☒ N VOA Zero Headspace: ☒ N
 Bottles arrive intact: ☒ N Pres. Correct/Check: ☒ N
 Correct bottles used: ☒ N
 Sufficient volume sent: ☒ N
 RAD Screen <0.5 mR/hr: ☒ N

Remarks:

Relinquished by (Signature): 			Date: <u>4/3/23</u>		Time: <u>10:30</u>		Samples returned via: ☐ UPS ☐ FedEx ☐ Courier			Tracking #			Hold #		
Relinquished by (Signature): 			Date: <u>4/3/23</u>		Time: <u>1700</u>		Received by (Signature): 			Date: 			Time: 		
Relinquished by (Signature):			Date:		Time:		Received by (Signature): FedEx			Date: 			Time: 		
Received for lab by (Signature): 			Date: 		Time: 		Date: <u>5/4/23</u>			Time: <u>0900</u>			Condition: (lab use only)		
													COC Seal Intact: ☐ Y ☐ N ☐ NA		
													NCF:		

Released to Imaging: 3/21/2024 4:14:24 PM



ANALYTICAL REPORT

May 19, 2023

Ensolum, LLC

Sample Delivery Group: L1616146
Samples Received: 05/13/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

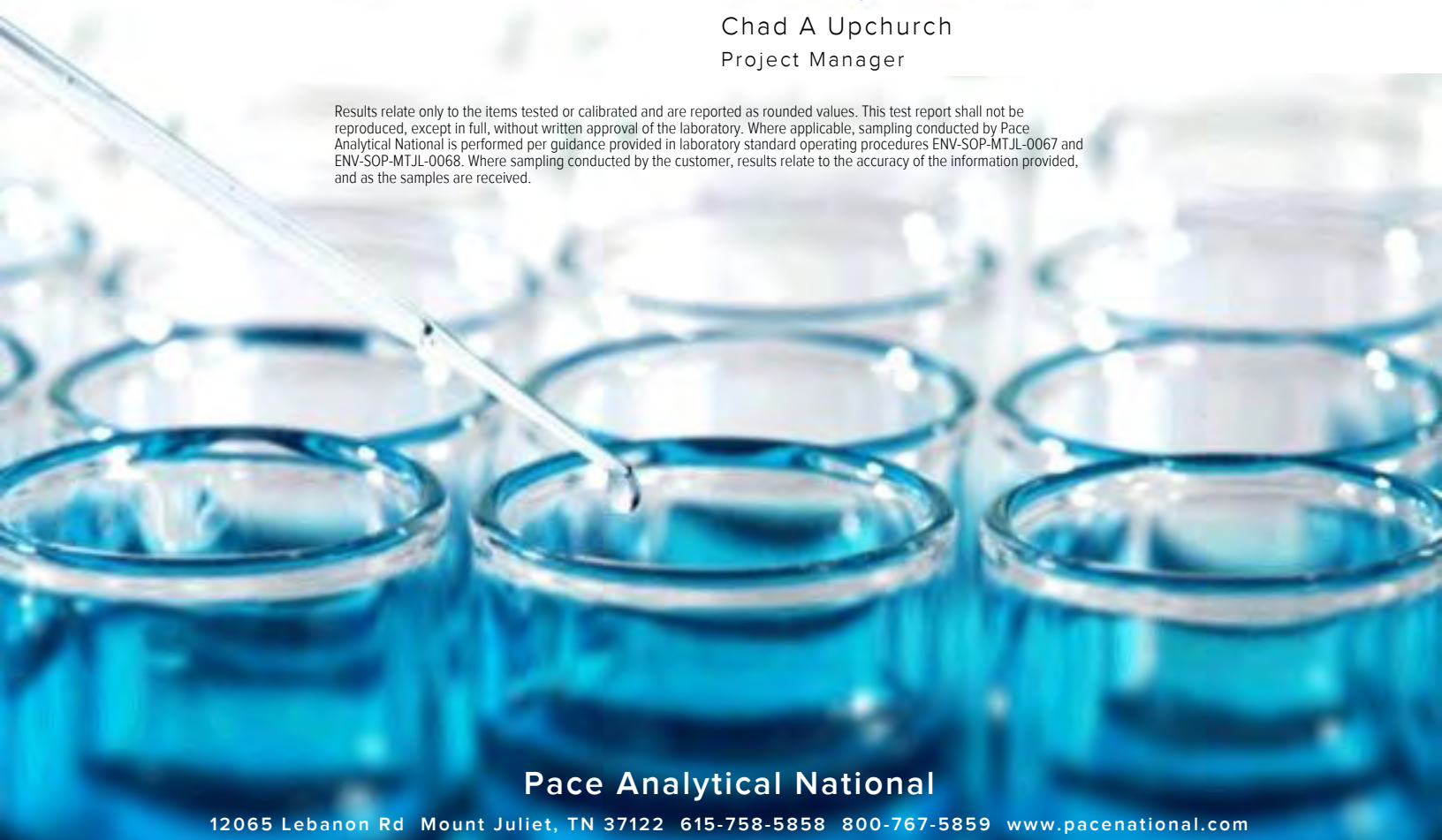


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1616146-01	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 L1616146-01 Air

Collected by
Shane Diller

Collected date/time
05/11/23 13:30

Received date/time
05/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2061474	100	05/17/23 23:03	05/17/23 23:03	DWR	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2062271	2000	05/18/23 13:16	05/18/23 13:16	AA	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

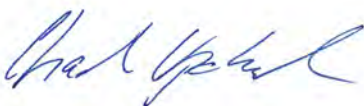
- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

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: 05/19/2023 10:14					
Project Name: Levey Well		Laboratory Job Number: L1616146-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2061474 and WG2062271					
# 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: 05/19/2023 10:14				
Project Name: Levey Well			Laboratory Job Number: L1616146-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2061474 and WG2062271				
# 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: 05/19/2023 10:14	
Project Name: Levey Well		Laboratory Job Number: L1616146-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2061474 and WG2062271	
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: 05/11/23 13:30

L1616146

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	1960	4660		100	WG2061474
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2061474
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2061474
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2061474
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2061474
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2061474
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2061474
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2061474
Carbon disulfide	75-15-0	76.10	20.0	62.2	51.5	160		100	WG2061474
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2061474
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2061474
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2061474
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2061474
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2061474
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2061474
Cyclohexane	110-82-7	84.20	400	1380	16000	55100		2000	WG2062271
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2061474
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2061474
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2061474
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2061474
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2061474
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2061474
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2061474
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2061474
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2061474
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2061474
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2061474
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2061474
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2061474
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2061474
Ethanol	64-17-5	46.10	250	471	1300	2450		100	WG2061474
Ethylbenzene	100-41-4	106	20.0	86.7	157	681		100	WG2061474
4-Ethyltoluene	622-96-8	120	20.0	98.2	24.8	122		100	WG2061474
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2061474
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2061474
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2061474
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2061474
Heptane	142-82-5	100	400	1640	9060	37100		2000	WG2062271
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2061474
n-Hexane	110-54-3	86.20	1260	4440	198000	698000		2000	WG2062271
Isopropylbenzene	98-82-8	120.20	20.0	98.3	29.8	147		100	WG2061474
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2061474
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2061474
2-Butanone (MEK)	78-93-3	72.10	125	369	395	1160		100	WG2061474
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2061474
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2061474
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2061474
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2061474
2-Propanol	67-63-0	60.10	125	307	3810	9370		100	WG2061474
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2061474
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2061474
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2061474
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2061474
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2061474
Toluene	108-88-3	92.10	50.0	188	125	471		100	WG2061474
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2061474



Collected date/time: 05/11/23 13:30

L1616146

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	WG2061474
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2061474
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2061474
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	48.5	238		100	WG2061474
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	32.3	159		100	WG2061474
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2061474
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2061474
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2061474
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2061474
m&p-Xylene	1330-20-7	106	40.0	173	299	1300		100	WG2061474
o-Xylene	95-47-6	106	20.0	86.7	157	681		100	WG2061474
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	1650000	443000	1830000		2000	WG2062271
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.6				WG2061474
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2062271

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3926277-3 05/17/23 09:45

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	0.182	UL	0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.916	UL	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

L1616146-01

Method Blank (MB)

(MB) R3926277-3 05/17/23 09:45

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	0.411	U	0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	91.8			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3926277-1 05/17/23 08:33 • (LCSD) R3926277-2 05/17/23 09:08

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	4.42	4.23	118	113	70.0-130			4.39	25
Allyl chloride	3.75	4.53	4.69	121	125	70.0-130			3.47	25
Benzene	3.75	4.18	4.06	111	108	70.0-130			2.91	25
Benzyl Chloride	3.75	3.67	3.55	97.9	94.7	70.0-152			3.32	25
Bromodichloromethane	3.75	4.08	4.01	109	107	70.0-130			1.73	25
Bromoform	3.75	4.53	4.37	121	117	70.0-130			3.60	25
Bromomethane	3.75	4.59	4.23	122	113	70.0-130			8.16	25
1,3-Butadiene	3.75	4.33	4.14	115	110	70.0-130			4.49	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3926277-1 05/17/23 08:33 • (LCSD) R3926277-2 05/17/23 09:08

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	4.30	4.03	115	107	70.0-130			6.48	25
Carbon tetrachloride	3.75	4.21	4.03	112	107	70.0-130			4.37	25
Chlorobenzene	3.75	4.23	4.12	113	110	70.0-130			2.63	25
Chloroethane	3.75	4.68	4.36	125	116	70.0-130			7.08	25
Chloroform	3.75	4.19	3.95	112	105	70.0-130			5.90	25
Chloromethane	3.75	4.31	4.04	115	108	70.0-130			6.47	25
2-Chlorotoluene	3.75	3.93	3.72	105	99.2	70.0-130			5.49	25
Dibromochloromethane	3.75	4.33	4.16	115	111	70.0-130			4.00	25
1,2-Dibromoethane	3.75	4.22	4.08	113	109	70.0-130			3.37	25
1,2-Dichlorobenzene	3.75	4.05	3.88	108	103	70.0-130			4.29	25
1,3-Dichlorobenzene	3.75	4.03	3.82	107	102	70.0-130			5.35	25
1,4-Dichlorobenzene	3.75	3.88	3.68	103	98.1	70.0-130			5.29	25
1,2-Dichloroethane	3.75	4.08	3.95	109	105	70.0-130			3.24	25
1,1-Dichloroethane	3.75	4.26	4.11	114	110	70.0-130			3.58	25
1,1-Dichloroethene	3.75	4.15	3.97	111	106	70.0-130			4.43	25
cis-1,2-Dichloroethene	3.75	4.16	4.03	111	107	70.0-130			3.17	25
trans-1,2-Dichloroethene	3.75	4.25	3.97	113	106	70.0-130			6.81	25
1,2-Dichloropropane	3.75	4.29	4.14	114	110	70.0-130			3.56	25
cis-1,3-Dichloropropene	3.75	4.19	4.07	112	109	70.0-130			2.91	25
trans-1,3-Dichloropropene	3.75	4.09	4.01	109	107	70.0-130			1.98	25
1,4-Dioxane	3.75	4.57	4.45	122	119	70.0-140			2.66	25
Ethanol	3.75	4.37	4.28	117	114	55.0-148			2.08	25
Ethylbenzene	3.75	4.45	4.27	119	114	70.0-130			4.13	25
4-Ethyltoluene	3.75	3.94	3.75	105	100	70.0-130			4.94	25
Trichlorofluoromethane	3.75	4.36	4.17	116	111	70.0-130			4.45	25
Dichlorodifluoromethane	3.75	4.09	3.84	109	102	64.0-139			6.31	25
1,1,2-Trichlorotrifluoroethane	3.75	4.25	3.98	113	106	70.0-130			6.56	25
1,2-Dichlorotetrafluoroethane	3.75	4.22	3.94	113	105	70.0-130			6.86	25
Hexachloro-1,3-butadiene	3.75	4.22	4.01	113	107	70.0-151			5.10	25
Isopropylbenzene	3.75	4.38	4.23	117	113	70.0-130			3.48	25
Methylene Chloride	3.75	4.24	4.05	113	108	70.0-130			4.58	25
Methyl Butyl Ketone	3.75	4.83	4.67	129	125	70.0-149			3.37	25
2-Butanone (MEK)	3.75	4.36	4.05	116	108	70.0-130			7.37	25
4-Methyl-2-pentanone (MIBK)	3.75	4.73	4.62	126	123	70.0-139			2.35	25
Methyl methacrylate	3.75	4.23	4.07	113	109	70.0-130			3.86	25
MTBE	3.75	4.32	4.09	115	109	70.0-130			5.47	25
Naphthalene	3.75	4.10	3.90	109	104	70.0-159			5.00	25
2-Propanol	3.75	4.41	4.31	118	115	70.0-139			2.29	25
Propene	3.75	4.15	4.00	111	107	64.0-144			3.68	25
Styrene	3.75	4.36	4.23	116	113	70.0-130			3.03	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3926277-1 05/17/23 08:33 • (LCSD) R3926277-2 05/17/23 09:08

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,2,2-Tetrachloroethane	3.75	3.94	3.81	105	102	70.0-130			3.35	25
Tetrachloroethylene	3.75	4.47	4.27	119	114	70.0-130			4.58	25
Tetrahydrofuran	3.75	4.50	4.26	120	114	70.0-137			5.48	25
Toluene	3.75	4.25	4.13	113	110	70.0-130			2.86	25
1,2,4-Trichlorobenzene	3.75	4.27	4.04	114	108	70.0-160			5.54	25
1,1,1-Trichloroethane	3.75	4.11	3.98	110	106	70.0-130			3.21	25
1,1,2-Trichloroethane	3.75	4.22	4.11	113	110	70.0-130			2.64	25
Trichloroethylene	3.75	4.15	4.18	111	111	70.0-130			0.720	25
1,2,4-Trimethylbenzene	3.75	3.89	3.67	104	97.9	70.0-130			5.82	25
1,3,5-Trimethylbenzene	3.75	3.86	3.68	103	98.1	70.0-130			4.77	25
2,2,4-Trimethylpentane	3.75	4.39	4.18	117	111	70.0-130			4.90	25
Vinyl chloride	3.75	4.53	4.25	121	113	70.0-130			6.38	25
Vinyl Bromide	3.75	4.61	4.35	123	116	70.0-130			5.80	25
Vinyl acetate	3.75	4.37	4.34	117	116	70.0-130			0.689	25
m&p-Xylene	7.50	8.75	8.43	117	112	70.0-130			3.73	25
o-Xylene	3.75	4.31	4.17	115	111	70.0-130			3.30	25
(S) 1,4-Bromofluorobenzene				90.1	90.6	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3926800-3 05/18/23 11:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	102			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3926800-1 05/18/23 10:35 • (LCSD) R3926800-2 05/18/23 11:17

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Cyclohexane	3.75	4.51	4.41	120	118	70.0-130			2.24	25
Heptane	3.75	4.15	4.03	111	107	70.0-130			2.93	25
n-Hexane	3.75	4.38	4.36	117	116	70.0-130			0.458	25
TPH (GC/MS) Low Fraction	188	187	186	99.5	98.9	70.0-130			0.536	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.

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.



Released to Imaging: 3/21/2024 4:14:24 PM



ANALYTICAL REPORT

June 01, 2023

Ensolum, LLC

Sample Delivery Group: L1620821
Samples Received: 05/27/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

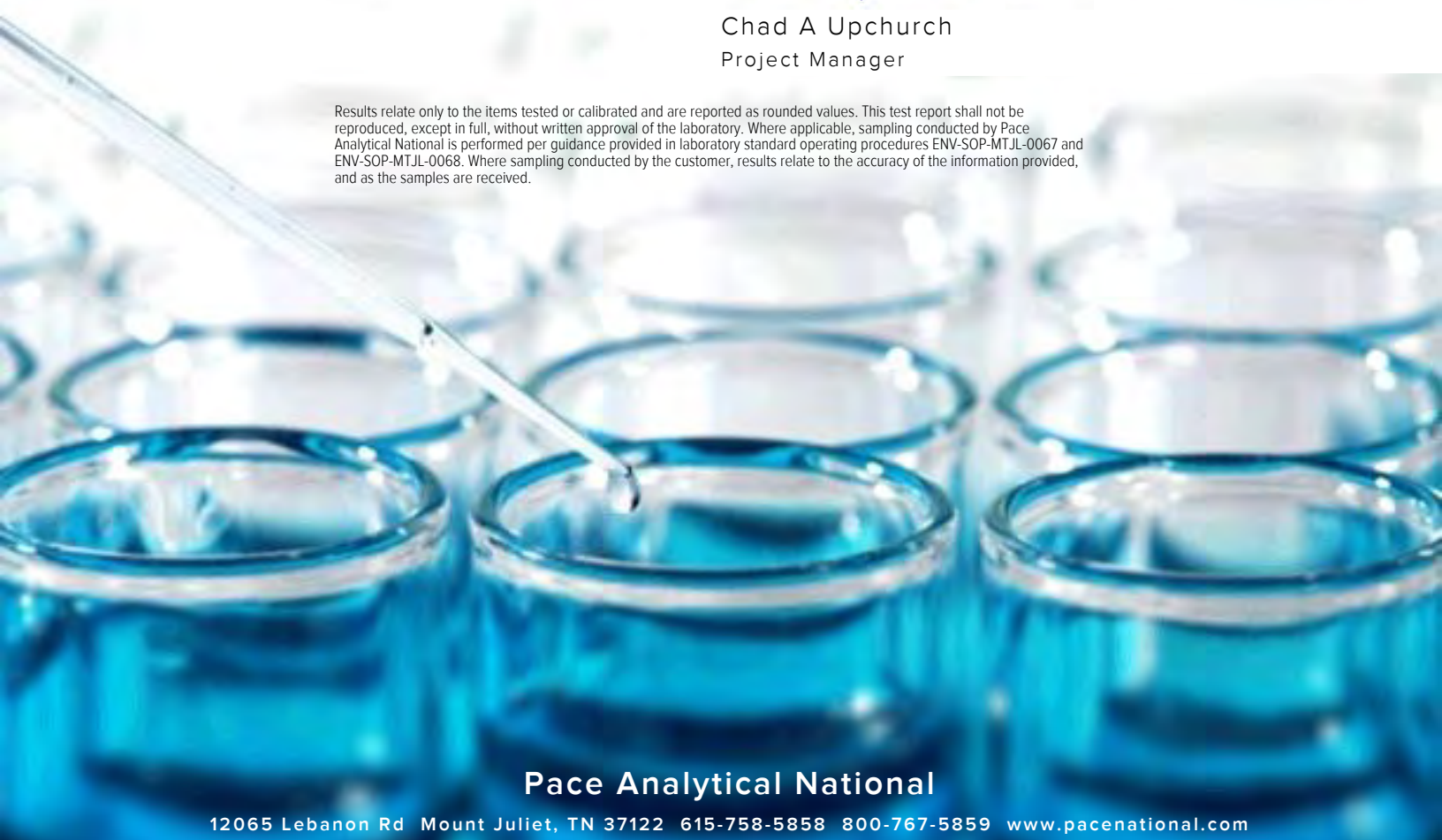


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1620821-01	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 L1620821-01 Air

Collected by
Shane Diller

Collected date/time
05/25/23 11:56

Received date/time
05/27/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2068143	100	05/30/23 01:35	05/30/23 01:35	AA	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2069291	4000	05/31/23 22:49	05/31/23 22:49	MBF	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

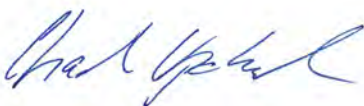
¹⁰ Sc

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: 06/01/2023 10:00				
Project Name: Levey Well			Laboratory Job Number: L1620821-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2068143 and WG2069291				
# 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: 06/01/2023 10:00				
Project Name: Levey Well			Laboratory Job Number: L1620821-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2068143 and WG2069291				
# 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: 06/01/2023 10:00	
Project Name: Levey Well		Laboratory Job Number: L1620821-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2068143 and WG2069291	
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: 05/25/23 11:56

L1620821

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	1740	4130		100	WG2068143
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2068143
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2068143
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2068143
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2068143
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2068143
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2068143
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2068143
Carbon disulfide	75-15-0	76.10	20.0	62.2	86.6	270		100	WG2068143
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2068143
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2068143
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2068143
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2068143
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2068143
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2068143
Cyclohexane	110-82-7	84.20	800	2760	23800	82000		4000	WG2069291
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2068143
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2068143
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2068143
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2068143
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2068143
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2068143
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2068143
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2068143
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2068143
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2068143
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2068143
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2068143
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2068143
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2068143
Ethanol	64-17-5	46.10	250	471	2470	4660		100	WG2068143
Ethylbenzene	100-41-4	106	20.0	86.7	65.8	285		100	WG2068143
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2068143
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2068143
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2068143
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2068143
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2068143
Heptane	142-82-5	100	800	3270	20700	84700		4000	WG2069291
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2068143
n-Hexane	110-54-3	86.20	2520	8880	253000	892000		4000	WG2069291
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2068143
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2068143
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2068143
2-Butanone (MEK)	78-93-3	72.10	125	369	438	1290		100	WG2068143
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2068143
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2068143
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2068143
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2068143
2-Propanol	67-63-0	60.10	125	307	3170	7790		100	WG2068143
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2068143
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2068143
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2068143
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2068143
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2068143
Toluene	108-88-3	92.10	50.0	188	114	429		100	WG2068143
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2068143

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/25/23 11:56

L1620821

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	WG2068143
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2068143
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2068143
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	20.3	99.6		100	WG2068143
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2068143
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2068143
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2068143
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2068143
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2068143
m&p-Xylene	1330-20-7	106	40.0	173	125	542		100	WG2068143
o-Xylene	95-47-6	106	20.0	86.7	63.7	276		100	WG2068143
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	444000	1830000		100	WG2068143
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.5				WG2068143
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.3				WG2069291

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3930923-3 05/29/23 10:21

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1620821-01

Method Blank (MB)

(MB) R3930923-3 05/29/23 10:21

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	93.1			60.0-140

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3930923-1 05/29/23 08:57 • (LCSD) R3930923-2 05/29/23 09:40

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	3.69	3.72	98.4	99.2	70.0-130			0.810	25
Allyl chloride	3.75	3.78	3.66	101	97.6	70.0-130			3.23	25
Benzene	3.75	3.70	3.72	98.7	99.2	70.0-130			0.539	25
Benzyl Chloride	3.75	3.29	3.33	87.7	88.8	70.0-152			1.21	25
Bromodichloromethane	3.75	3.48	3.49	92.8	93.1	70.0-130			0.287	25
Bromoform	3.75	3.75	3.73	100	99.5	70.0-130			0.535	25
Bromomethane	3.75	3.36	3.34	89.6	89.1	70.0-130			0.597	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3930923-1 05/29/23 08:57 • (LCSD) R3930923-2 05/29/23 09:40

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 %
1,3-Butadiene	3.75	3.89	3.89	104	104	70.0-130			0.000	25
Carbon disulfide	3.75	3.75	3.71	100	98.9	70.0-130			1.07	25
Carbon tetrachloride	3.75	3.65	3.70	97.3	98.7	70.0-130			1.36	25
Chlorobenzene	3.75	3.68	3.69	98.1	98.4	70.0-130			0.271	25
Chloroethane	3.75	3.22	3.27	85.9	87.2	70.0-130			1.54	25
Chloroform	3.75	3.55	3.64	94.7	97.1	70.0-130			2.50	25
Chloromethane	3.75	3.64	3.64	97.1	97.1	70.0-130			0.000	25
2-Chlorotoluene	3.75	3.86	3.88	103	103	70.0-130			0.517	25
Dibromochloromethane	3.75	3.58	3.58	95.5	95.5	70.0-130			0.000	25
1,2-Dibromoethane	3.75	3.48	3.48	92.8	92.8	70.0-130			0.000	25
1,2-Dichlorobenzene	3.75	3.74	3.76	99.7	100	70.0-130			0.533	25
1,3-Dichlorobenzene	3.75	3.65	3.71	97.3	98.9	70.0-130			1.63	25
1,4-Dichlorobenzene	3.75	3.55	3.56	94.7	94.9	70.0-130			0.281	25
1,2-Dichloroethane	3.75	3.80	3.81	101	102	70.0-130			0.263	25
1,1-Dichloroethane	3.75	3.78	3.84	101	102	70.0-130			1.57	25
1,1-Dichloroethene	3.75	3.75	3.82	100	102	70.0-130			1.85	25
cis-1,2-Dichloroethene	3.75	3.77	3.83	101	102	70.0-130			1.58	25
trans-1,2-Dichloroethene	3.75	3.80	3.85	101	103	70.0-130			1.31	25
1,2-Dichloropropane	3.75	3.77	3.77	101	101	70.0-130			0.000	25
cis-1,3-Dichloropropene	3.75	3.56	3.53	94.9	94.1	70.0-130			0.846	25
trans-1,3-Dichloropropene	3.75	3.50	3.48	93.3	92.8	70.0-130			0.573	25
1,4-Dioxane	3.75	3.82	3.89	102	104	70.0-140			1.82	25
Ethanol	3.75	4.86	4.90	130	131	55.0-148			0.820	25
Ethylbenzene	3.75	3.64	3.63	97.1	96.8	70.0-130			0.275	25
4-Ethyltoluene	3.75	3.74	3.80	99.7	101	70.0-130			1.59	25
Trichlorofluoromethane	3.75	4.02	4.06	107	108	70.0-130			0.990	25
Dichlorodifluoromethane	3.75	3.49	3.31	93.1	88.3	64.0-139			5.29	25
1,1,2-Trichlorotrifluoroethane	3.75	3.76	3.80	100	101	70.0-130			1.06	25
1,2-Dichlorotetrafluoroethane	3.75	3.78	3.80	101	101	70.0-130			0.528	25
Hexachloro-1,3-butadiene	3.75	3.78	3.80	101	101	70.0-151			0.528	25
Isopropylbenzene	3.75	3.76	3.77	100	101	70.0-130			0.266	25
Methylene Chloride	3.75	3.84	3.93	102	105	70.0-130			2.32	25
Methyl Butyl Ketone	3.75	3.48	3.51	92.8	93.6	70.0-149			0.858	25
2-Butanone (MEK)	3.75	3.73	3.71	99.5	98.9	70.0-130			0.538	25
4-Methyl-2-pentanone (MIBK)	3.75	3.80	3.81	101	102	70.0-139			0.263	25
Methyl methacrylate	3.75	3.13	3.10	83.5	82.7	70.0-130			0.963	25
MTBE	3.75	3.62	3.66	96.5	97.6	70.0-130			1.10	25
Naphthalene	3.75	3.06	3.02	81.6	80.5	70.0-159			1.32	25
2-Propanol	3.75	3.61	3.69	96.3	98.4	70.0-139			2.19	25
Propene	3.75	3.57	3.64	95.2	97.1	64.0-144			1.94	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3930923-1 05/29/23 08:57 • (LCSD) R3930923-2 05/29/23 09:40

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 %
Styrene	3.75	3.46	3.45	92.3	92.0	70.0-130			0.289	25
1,1,2,2-Tetrachloroethane	3.75	3.74	3.81	99.7	102	70.0-130			1.85	25
Tetrachloroethylene	3.75	3.68	3.71	98.1	98.9	70.0-130			0.812	25
Tetrahydrofuran	3.75	3.55	3.62	94.7	96.5	70.0-137			1.95	25
Toluene	3.75	3.50	3.50	93.3	93.3	70.0-130			0.000	25
1,2,4-Trichlorobenzene	3.75	3.09	3.09	82.4	82.4	70.0-160			0.000	25
1,1,1-Trichloroethane	3.75	3.52	3.58	93.9	95.5	70.0-130			1.69	25
1,1,2-Trichloroethane	3.75	3.48	3.51	92.8	93.6	70.0-130			0.858	25
Trichloroethylene	3.75	3.62	3.64	96.5	97.1	70.0-130			0.551	25
1,2,4-Trimethylbenzene	3.75	3.69	3.73	98.4	99.5	70.0-130			1.08	25
1,3,5-Trimethylbenzene	3.75	3.78	3.81	101	102	70.0-130			0.791	25
2,2,4-Trimethylpentane	3.75	3.70	3.73	98.7	99.5	70.0-130			0.808	25
Vinyl chloride	3.75	4.03	3.99	107	106	70.0-130			0.998	25
Vinyl Bromide	3.75	3.61	3.63	96.3	96.8	70.0-130			0.552	25
Vinyl acetate	3.75	3.65	3.66	97.3	97.6	70.0-130			0.274	25
m&p-Xylene	7.50	7.31	7.29	97.5	97.2	70.0-130			0.274	25
o-Xylene	3.75	3.58	3.61	95.5	96.3	70.0-130			0.834	25
TPH (GC/MS) Low Fraction	188	164	165	87.2	87.8	70.0-130			0.608	25
(S) 1,4-Bromofluorobenzene				94.5	94.1	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1620821-01](#)

Method Blank (MB)

(MB) R3931415-3 05/31/23 13:55

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	95.9			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3931415-1 05/31/23 12:39 • (LCSD) R3931415-2 05/31/23 13:18

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	3.51	3.42	93.6	91.2	70.0-130			2.60	25
Heptane	3.75	3.49	3.42	93.1	91.2	70.0-130			2.03	25
n-Hexane	3.75	3.21	3.16	85.6	84.3	70.0-130			1.57	25
(S) 1,4-Bromofluorobenzene				96.2	98.0	60.0-140				

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

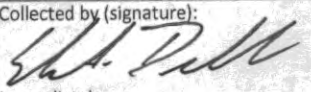
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	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.



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> </u> of <u> </u>  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 # <u>U620821</u> J029 Acctnum: ENSOLUMMTX Template: T180734 Prelogin: P827709 PM: 134 - Mark W. Beasley PB: Shipped Via: Remarks Sample # (lab only)			
Report to: Beaux Jennings		Email To: bjennings@ensolum.com																	
Project Description: Levey Well		City/State Collected: Hobbs NM		Please Circle: PT MT <u>CD</u> 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):  Immediately Packed on Ice <u>N</u> <u>X</u> <u>Y</u>		Rush? (Lab MUST Be Notified) <u> </u> Same Day <u> </u> Five Day <u> </u> Next Day <u> </u> 5 Day (Rad Only) <u> </u> Two Day <u> </u> 10 Day (Rad Only) <u>X</u> Three Day		Quote # Date Results Needed															
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs												
Levey Well		G	Air	-	5-25-23 1156	1	X												
~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
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~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
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~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
~~Levey Well~~		~~G~~	~~Air~~	~~-~~	~~5-25-23 1156~~	~~1~~	~~X~~												
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~~Levey Well~~		~~G~~	~~Air~~																



ANALYTICAL REPORT

June 11, 2023

Ensolum, LLC

Sample Delivery Group: L1621784
Samples Received: 06/01/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

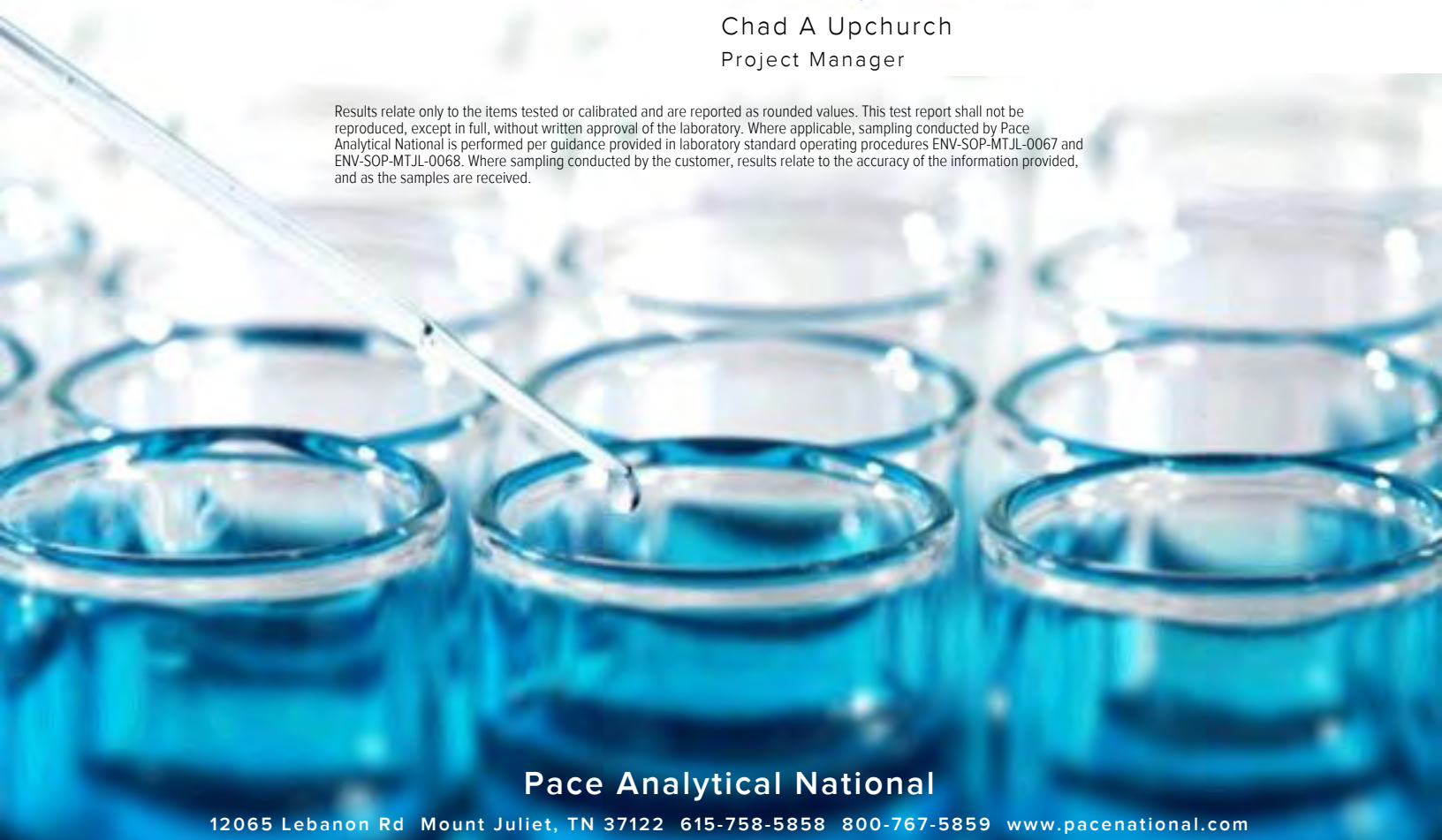


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
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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 L1621784-01	9	⁶ Sr
LEVEY WELL L1621784-02	11	
LEVEY WELL L1621784-03	13	⁷ Qc
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LEVEY WELL L1621784-01 Air

Collected by
Shane Diller

Collected date/time
05/30/23 10:23

Received date/time
06/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2071180	100	06/03/23 20:45	06/03/23 20:45	DBB	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2071756	10000	06/05/23 18:40	06/05/23 18:40	SDS	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2074126	10000	06/08/23 18:54	06/08/23 18:54	SDS	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

LEVEY WELL L1621784-02 Air

Collected by
Shane Diller

Collected date/time
05/30/23 11:43

Received date/time
06/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2071180	100	06/03/23 21:12	06/03/23 21:12	DBB	Mt. Juliet, TN

LEVEY WELL L1621784-03 Air

Collected by
Shane Diller

Collected date/time
05/30/23 13:00

Received date/time
06/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2071180	100	06/03/23 21:40	06/03/23 21:40	DBB	Mt. Juliet, TN

LEVEY WELL L1621784-04 Air

Collected by
Shane Diller

Collected date/time
05/30/23 13:57

Received date/time
06/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2071180	100	06/03/23 22:07	06/03/23 22:07	DBB	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

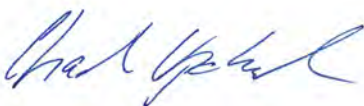
- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

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: 06/11/2023 13:55					
Project Name: Levey Well		Laboratory Job Number: L1621784-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2071180, WG2071756 and WG2074126					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?		X			1
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 06/11/2023 13:55					
Project Name: Levey Well		Laboratory Job Number: L1621784-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2071180, WG2071756 and WG2074126					
# 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: 06/11/2023 13:55	
Project Name: Levey Well		Laboratory Job Number: L1621784-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2071180, WG2071756 and WG2074126	
ER #¹	Description		
1	TO-15 WG2071756 Ethanol: Relative Percent Difference is outside of established control limits.		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 05/30/23 10:23

L1621784

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	12500	29700	153000	364000		10000	WG2071756
Allyl chloride	107-05-1	76.53	2000	6260	ND	ND		10000	WG2071756
Benzene	71-43-2	78.10	2000	6390	ND	ND		10000	WG2071756
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2071180
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2071180
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2071180
Bromomethane	74-83-9	94.90	2000	7760	ND	ND		10000	WG2071756
1,3-Butadiene	106-99-0	54.10	20000	44300	ND	ND		10000	WG2071756
Carbon disulfide	75-15-0	76.10	2000	6220	10500	32700		10000	WG2071756
Carbon tetrachloride	56-23-5	154	2000	12600	ND	ND		10000	WG2071756
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2071180
Chloroethane	75-00-3	64.50	2000	5280	ND	ND		10000	WG2071756
Chloroform	67-66-3	119	2000	9730	ND	ND		10000	WG2071756
Chloromethane	74-87-3	50.50	2000	4130	ND	ND		10000	WG2071756
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2071180
Cyclohexane	110-82-7	84.20	2000	6890	52200	180000		10000	WG2074126
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2071180
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2071180
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2071180
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2071180
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2071180
1,2-Dichloroethane	107-06-2	99	2000	8100	ND	ND		10000	WG2071756
1,1-Dichloroethane	75-34-3	98	2000	8020	ND	ND		10000	WG2071756
1,1-Dichloroethene	75-35-4	96.90	2000	7930	ND	ND		10000	WG2071756
cis-1,2-Dichloroethene	156-59-2	96.90	2000	7930	ND	ND		10000	WG2071756
trans-1,2-Dichloroethene	156-60-5	96.90	2000	7930	ND	ND		10000	WG2071756
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2071180
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2071180
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2071180
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2071180
Ethanol	64-17-5	46.10	25000	47100	ND	ND	J3	10000	WG2071756
Ethylbenzene	100-41-4	106	20.0	86.7	149	646		100	WG2071180
4-Ethyltoluene	622-96-8	120	20.0	98.2	73.2	359		100	WG2071180
Trichlorofluoromethane	75-69-4	137.40	2000	11200	ND	ND		10000	WG2071756
Dichlorodifluoromethane	75-71-8	120.92	2000	9890	ND	ND		10000	WG2071756
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	2000	15300	ND	ND		10000	WG2071756
1,2-Dichlorotetrafluoroethane	76-14-2	171	2000	14000	ND	ND		10000	WG2071756
Heptane	142-82-5	100	2000	8180	48300	198000		10000	WG2074126
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2071180
n-Hexane	110-54-3	86.20	6300	22200	628000	2210000		10000	WG2074126
Isopropylbenzene	98-82-8	120.20	20.0	98.3	32.3	159		100	WG2071180
Methylene Chloride	75-09-2	84.90	2000	6940	ND	ND		10000	WG2071756
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2071180
2-Butanone (MEK)	78-93-3	72.10	12500	36900	58000	171000		10000	WG2071756
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2071180
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2071180
MTBE	1634-04-4	88.10	2000	7210	ND	ND		10000	WG2071756
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2071180
2-Propanol	67-63-0	60.10	12500	30700	88000	216000		10000	WG2071756
Propene	115-07-1	42.10	12500	21500	ND	ND		10000	WG2071756
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2071180
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2071180
Tetrachloroethylene	127-18-4	166	20.0	136	22.6	153		100	WG2071180
Tetrahydrofuran	109-99-9	72.10	2000	5900	ND	ND		10000	WG2071756
Toluene	108-88-3	92.10	50.0	188	133	501		100	WG2071180
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2071180

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/30/23 10:23

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	2000	10900	2800	15200		10000	WG2071756
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2071180
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2071180
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	119	584		100	WG2071180
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	68.0	334		100	WG2071180
2,2,4-Trimethylpentane	540-84-1	114.22	2000	9340	ND	ND		10000	WG2071756
Vinyl chloride	75-01-4	62.50	2000	5110	ND	ND		10000	WG2071756
Vinyl Bromide	593-60-2	106.95	2000	8750	ND	ND		10000	WG2071756
Vinyl acetate	108-05-4	86.10	2000	7040	ND	ND		10000	WG2071756
m&p-Xylene	1330-20-7	106	40.0	173	271	1170		100	WG2071180
o-Xylene	95-47-6	106	20.0	86.7	164	711		100	WG2071180
TPH (GC/MS) Low Fraction	8006-61-9	101	2000000	8260000	ND	ND		10000	WG2074126
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG2071180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.4				WG2071756
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.4				WG2074126

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 05/30/23 11:43

L1621784

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	WG2071180
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2071180
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2071180
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2071180
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2071180
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2071180
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2071180
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2071180
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2071180
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2071180
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2071180
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2071180
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2071180
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2071180
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2071180
Cyclohexane	110-82-7	84.20	20.0	68.9	263	906		100	WG2071180
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2071180
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2071180
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2071180
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2071180
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2071180
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2071180
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2071180
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2071180
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2071180
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2071180
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2071180
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2071180
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2071180
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2071180
Ethanol	64-17-5	46.10	250	471	3980	7500		100	WG2071180
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2071180
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2071180
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2071180
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2071180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2071180
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2071180
Heptane	142-82-5	100	20.0	81.8	238	973		100	WG2071180
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2071180
n-Hexane	110-54-3	86.20	63.0	222	2710	9550		100	WG2071180
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2071180
Methylene Chloride	75-09-2	84.90	20.0	69.4	103	358		100	WG2071180
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2071180
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2071180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2071180
Methyl methacrylate	80-62-6	100.12	20.0	81.9	27.2	111		100	WG2071180
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2071180
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2071180
2-Propanol	67-63-0	60.10	125	307	3130	7690		100	WG2071180
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2071180
Styrene	100-42-5	104	20.0	85.1	20.3	86.3		100	WG2071180
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2071180
Tetrachloroethylene	127-18-4	166	20.0	136	27.4	186		100	WG2071180
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2071180
Toluene	108-88-3	92.10	50.0	188	121	456		100	WG2071180
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2071180



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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	WG2071180
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2071180
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2071180
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2071180
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2071180
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2071180
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2071180
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2071180
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2071180
m&p-Xylene	1330-20-7	106	40.0	173	42.1	183		100	WG2071180
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2071180
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2071180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.1				WG2071180

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/30/23 13:00

L1621784

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	WG2071180
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2071180
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2071180
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2071180
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2071180
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2071180
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2071180
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2071180
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2071180
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2071180
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2071180
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2071180
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2071180
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2071180
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2071180
Cyclohexane	110-82-7	84.20	20.0	68.9	188	647		100	WG2071180
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2071180
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2071180
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2071180
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2071180
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2071180
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2071180
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2071180
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2071180
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2071180
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2071180
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2071180
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2071180
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2071180
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2071180
Ethanol	64-17-5	46.10	250	471	3900	7350		100	WG2071180
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2071180
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2071180
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2071180
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2071180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2071180
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2071180
Heptane	142-82-5	100	20.0	81.8	161	658		100	WG2071180
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2071180
n-Hexane	110-54-3	86.20	63.0	222	2360	8320		100	WG2071180
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2071180
Methylene Chloride	75-09-2	84.90	20.0	69.4	92.9	323		100	WG2071180
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2071180
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2071180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2071180
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2071180
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2071180
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2071180
2-Propanol	67-63-0	60.10	125	307	5020	12300		100	WG2071180
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2071180
Styrene	100-42-5	104	20.0	85.1	20.3	86.3		100	WG2071180
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2071180
Tetrachloroethylene	127-18-4	166	20.0	136	52.7	358		100	WG2071180
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2071180
Toluene	108-88-3	92.10	50.0	188	119	448		100	WG2071180
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2071180



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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	WG2071180
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2071180
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2071180
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2071180
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2071180
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2071180
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2071180
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2071180
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2071180
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG2071180
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2071180
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2071180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		93.3				WG2071180



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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	WG2071180
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2071180
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2071180
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2071180
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2071180
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2071180
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2071180
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2071180
Carbon disulfide	75-15-0	76.10	20.0	62.2	57.9	180		100	WG2071180
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2071180
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2071180
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2071180
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2071180
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2071180
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2071180
Cyclohexane	110-82-7	84.20	20.0	68.9	622	2140		100	WG2071180
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2071180
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2071180
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2071180
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2071180
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2071180
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2071180
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2071180
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2071180
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2071180
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2071180
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2071180
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2071180
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2071180
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2071180
Ethanol	64-17-5	46.10	250	471	3830	7220		100	WG2071180
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2071180
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2071180
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2071180
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2071180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2071180
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2071180
Heptane	142-82-5	100	20.0	81.8	613	2510		100	WG2071180
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2071180
n-Hexane	110-54-3	86.20	63.0	222	5460	19200		100	WG2071180
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2071180
Methylene Chloride	75-09-2	84.90	20.0	69.4	87.5	304		100	WG2071180
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2071180
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2071180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2071180
Methyl methacrylate	80-62-6	100.12	20.0	81.9	77.6	318		100	WG2071180
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2071180
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2071180
2-Propanol	67-63-0	60.10	125	307	3720	9140		100	WG2071180
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2071180
Styrene	100-42-5	104	20.0	85.1	24.0	102		100	WG2071180
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2071180
Tetrachloroethylene	127-18-4	166	20.0	136	69.5	472		100	WG2071180
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2071180
Toluene	108-88-3	92.10	50.0	188	131	493		100	WG2071180
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2071180

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/30/23 13:57

L1621784

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	WG2071180
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2071180
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2071180
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2071180
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2071180
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2071180
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2071180
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2071180
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2071180
m&p-Xylene	1330-20-7	106	40.0	173	47.9	208		100	WG2071180
o-Xylene	95-47-6	106	20.0	86.7	24.0	104		100	WG2071180
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	25500	105000	B	100	WG2071180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.9				WG2071180

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3932732-2 06/03/23 12:59

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.419	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

L1621784-01.02.03.04

Method Blank (MB)

(MB) R3932732-2 06/03/23 12:59

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	53.4	U	39.7	200
(S) 1,4-Bromofluorobenzene	95.6			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3932732-1 06/03/23 11:07 • (LCSD) R3932732-3 06/03/23 13:27

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	4.11	4.01	110	107	70.0-130			2.46	25
Allyl chloride	3.75	3.62	3.67	96.5	97.9	70.0-130			1.37	25
Benzene	3.75	4.07	4.09	109	109	70.0-130			0.490	25
Benzyl Chloride	3.75	4.28	4.02	114	107	70.0-152			6.27	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3932732-1 06/03/23 11:07 • (LCSD) R3932732-3 06/03/23 13:27

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.11	4.15	110	111	70.0-130			0.969	25
Bromoform	3.75	4.55	4.39	121	117	70.0-130			3.58	25
Bromomethane	3.75	3.90	3.94	104	105	70.0-130			1.02	25
1,3-Butadiene	3.75	3.58	3.67	95.5	97.9	70.0-130			2.48	25
Carbon disulfide	3.75	3.76	3.78	100	101	70.0-130			0.531	25
Carbon tetrachloride	3.75	3.95	3.92	105	105	70.0-130			0.762	25
Chlorobenzene	3.75	4.24	4.22	113	113	70.0-130			0.473	25
Chloroethane	3.75	3.66	3.73	97.6	99.5	70.0-130			1.89	25
Chloroform	3.75	4.08	4.07	109	109	70.0-130			0.245	25
Chloromethane	3.75	3.99	4.05	106	108	70.0-130			1.49	25
2-Chlorotoluene	3.75	4.48	4.30	119	115	70.0-130			4.10	25
Cyclohexane	3.75	3.83	3.78	102	101	70.0-130			1.31	25
Dibromochloromethane	3.75	4.16	4.22	111	113	70.0-130			1.43	25
1,2-Dibromoethane	3.75	4.10	4.08	109	109	70.0-130			0.489	25
1,2-Dichlorobenzene	3.75	4.65	4.49	124	120	70.0-130			3.50	25
1,3-Dichlorobenzene	3.75	4.73	4.52	126	121	70.0-130			4.54	25
1,4-Dichlorobenzene	3.75	4.59	4.38	122	117	70.0-130			4.68	25
1,2-Dichloroethane	3.75	4.26	4.25	114	113	70.0-130			0.235	25
1,1-Dichloroethane	3.75	3.79	3.86	101	103	70.0-130			1.83	25
1,1-Dichloroethene	3.75	3.90	3.93	104	105	70.0-130			0.766	25
cis-1,2-Dichloroethene	3.75	3.96	3.90	106	104	70.0-130			1.53	25
trans-1,2-Dichloroethene	3.75	3.66	3.71	97.6	98.9	70.0-130			1.36	25
1,2-Dichloropropane	3.75	4.03	4.07	107	109	70.0-130			0.988	25
cis-1,3-Dichloropropene	3.75	3.88	3.96	103	106	70.0-130			2.04	25
trans-1,3-Dichloropropene	3.75	3.91	3.86	104	103	70.0-130			1.29	25
1,4-Dioxane	3.75	4.43	4.50	118	120	70.0-140			1.57	25
Ethanol	3.75	3.79	3.94	101	105	55.0-148			3.88	25
Ethylbenzene	3.75	4.55	4.38	121	117	70.0-130			3.81	25
4-Ethyltoluene	3.75	4.44	4.35	118	116	70.0-130			2.05	25
Trichlorofluoromethane	3.75	3.95	4.00	105	107	70.0-130			1.26	25
Dichlorodifluoromethane	3.75	3.97	3.94	106	105	64.0-139			0.759	25
1,1,2-Trichlorotrifluoroethane	3.75	3.83	3.85	102	103	70.0-130			0.521	25
1,2-Dichlorotetrafluoroethane	3.75	4.01	4.00	107	107	70.0-130			0.250	25
Heptane	3.75	3.94	3.95	105	105	70.0-130			0.253	25
Hexachloro-1,3-butadiene	3.75	4.60	4.38	123	117	70.0-151			4.90	25
n-Hexane	3.75	3.84	3.79	102	101	70.0-130			1.31	25
Isopropylbenzene	3.75	4.58	4.43	122	118	70.0-130			3.33	25
Methylene Chloride	3.75	3.98	4.01	106	107	70.0-130			0.751	25
Methyl Butyl Ketone	3.75	4.74	4.77	126	127	70.0-149			0.631	25
2-Butanone (MEK)	3.75	3.77	3.77	101	101	70.0-130			0.000	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1621784-01,02,03,04

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3932732-1 06/03/23 11:07 • (LCSD) R3932732-3 06/03/23 13:27

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.83	3.82	102	102	70.0-139			0.261	25
Methyl methacrylate	3.75	3.79	3.76	101	100	70.0-130			0.795	25
MTBE	3.75	3.78	3.76	101	100	70.0-130			0.531	25
Naphthalene	3.75	4.75	4.52	127	121	70.0-159			4.96	25
2-Propanol	3.75	3.61	3.70	96.3	98.7	70.0-139			2.46	25
Propene	3.75	3.57	3.57	95.2	95.2	64.0-144			0.000	25
Styrene	3.75	4.45	4.32	119	115	70.0-130			2.96	25
1,1,2,2-Tetrachloroethane	3.75	4.46	4.31	119	115	70.0-130			3.42	25
Tetrachloroethylene	3.75	4.41	4.40	118	117	70.0-130			0.227	25
Tetrahydrofuran	3.75	3.74	3.74	99.7	99.7	70.0-137			0.000	25
Toluene	3.75	4.06	4.13	108	110	70.0-130			1.71	25
1,2,4-Trichlorobenzene	3.75	4.67	4.32	125	115	70.0-160			7.79	25
1,1,1-Trichloroethane	3.75	3.85	3.86	103	103	70.0-130			0.259	25
1,1,2-Trichloroethane	3.75	3.95	3.99	105	106	70.0-130			1.01	25
Trichloroethylene	3.75	4.10	4.22	109	113	70.0-130			2.88	25
1,2,4-Trimethylbenzene	3.75	4.42	4.29	118	114	70.0-130			2.99	25
1,3,5-Trimethylbenzene	3.75	4.41	4.24	118	113	70.0-130			3.93	25
2,2,4-Trimethylpentane	3.75	4.00	4.03	107	107	70.0-130			0.747	25
Vinyl chloride	3.75	3.92	3.96	105	106	70.0-130			1.02	25
Vinyl Bromide	3.75	3.88	3.92	103	105	70.0-130			1.03	25
Vinyl acetate	3.75	3.36	3.10	89.6	82.7	70.0-130			8.05	25
m&p-Xylene	7.50	9.24	8.90	123	119	70.0-130			3.75	25
o-Xylene	3.75	4.60	4.40	123	117	70.0-130			4.44	25
TPH (GC/MS) Low Fraction	203	210	212	103	104	70.0-130			0.948	25
(S) 1,4-Bromofluorobenzene				97.7	95.4	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3933368-3 06/05/23 10:14

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
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
Ethanol	U		0.265	2.50
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Methylene Chloride	U		0.0979	0.200
2-Butanone (MEK)	U		0.0814	1.25
MTBE	U		0.0647	0.200
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Tetrahydrofuran	U		0.0734	0.200
1,1,1-Trichloroethane	U		0.0736	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
(S) 1,4-Bromofluorobenzene	94.3			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1621784-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3933368-1 06/05/23 08:56 • (LCSD) R3933368-2 06/05/23 09:36

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	3.81	3.80	102	101	70.0-130			0.263	25
Allyl chloride	3.75	4.12	4.22	110	113	70.0-130			2.40	25
Benzene	3.75	3.75	3.67	100	97.9	70.0-130			2.16	25
Bromomethane	3.75	4.37	3.73	117	99.5	70.0-130			15.8	25
1,3-Butadiene	3.75	4.04	4.05	108	108	70.0-130			0.247	25
Carbon disulfide	3.75	3.74	3.88	99.7	103	70.0-130			3.67	25
Carbon tetrachloride	3.75	3.85	4.01	103	107	70.0-130			4.07	25
Chloroethane	3.75	4.51	3.76	120	100	70.0-130			18.1	25
Chloroform	3.75	3.97	3.83	106	102	70.0-130			3.59	25
Chloromethane	3.75	3.92	4.40	105	117	70.0-130			11.5	25
1,2-Dichloroethane	3.75	3.68	3.61	98.1	96.3	70.0-130			1.92	25
1,1-Dichloroethane	3.75	3.81	3.90	102	104	70.0-130			2.33	25
1,1-Dichloroethene	3.75	3.94	3.92	105	105	70.0-130			0.509	25
cis-1,2-Dichloroethene	3.75	3.62	3.60	96.5	96.0	70.0-130			0.554	25
trans-1,2-Dichloroethene	3.75	3.95	4.09	105	109	70.0-130			3.48	25
Ethanol	3.75	5.54	3.22	148	85.9	55.0-148		J3	53.0	25
Trichlorofluoromethane	3.75	3.98	3.76	106	100	70.0-130			5.68	25
Dichlorodifluoromethane	3.75	3.92	4.17	105	111	64.0-139			6.18	25
1,1,2-Trichlorotrifluoroethane	3.75	3.99	3.92	106	105	70.0-130			1.77	25
1,2-Dichlorotetrafluoroethane	3.75	3.92	4.24	105	113	70.0-130			7.84	25
Methylene Chloride	3.75	3.75	4.01	100	107	70.0-130			6.70	25
2-Butanone (MEK)	3.75	4.15	3.97	111	106	70.0-130			4.43	25
MTBE	3.75	4.00	4.07	107	109	70.0-130			1.73	25
2-Propanol	3.75	3.82	3.92	102	105	70.0-139			2.58	25
Propene	3.75	3.77	4.21	101	112	64.0-144			11.0	25
Tetrahydrofuran	3.75	4.23	4.01	113	107	70.0-137			5.34	25
1,1,1-Trichloroethane	3.75	3.94	4.04	105	108	70.0-130			2.51	25
2,2,4-Trimethylpentane	3.75	4.18	4.10	111	109	70.0-130			1.93	25
Vinyl chloride	3.75	4.04	4.13	108	110	70.0-130			2.20	25
Vinyl Bromide	3.75	4.16	3.65	111	97.3	70.0-130			13.1	25
Vinyl acetate	3.75	4.74	4.67	126	125	70.0-130			1.49	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 [L1621784-01](#)

Method Blank (MB)

(MB) R3934942-3 06/08/23 09:59

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	95.8			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3934942-1 06/08/23 08:43 • (LCSD) R3934942-2 06/08/23 09:22

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Cyclohexane	3.75	4.14	4.25	110	113	70.0-130			2.62	25
Heptane	3.75	4.23	4.25	113	113	70.0-130			0.472	25
n-Hexane	3.75	4.14	4.23	110	113	70.0-130			2.15	25
TPH (GC/MS) Low Fraction	188	198	202	105	107	70.0-130			2.00	25
(S) 1,4-Bromofluorobenzene				97.0	96.2	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.

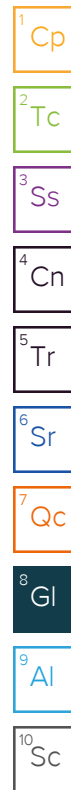
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. 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.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.



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.



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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/8/2023 4:24:08 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-27870-1

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: 880-27870-1

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Definitions/Glossary

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

Job ID: 880-27870-1

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.
S1+	Surrogate recovery exceeds control limits, high biased.
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.
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	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Definitions/Glossary

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

Job ID: 880-27870-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

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

Job ID: 880-27870-1

Job ID: 880-27870-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-27870-1****Receipt**

The samples were received on 5/2/2023 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 3.5°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-101625 recovered above the upper control limit for Bromomethane (23.20). 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 860-101625/2).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (860-48188-B-10), (860-48188-B-10 MS) and (860-48188-B-10 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-101625 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS/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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 860-102015 and analytical batch 860-102056 was outside the upper control 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 860-101661 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 300_ORGFMS: The method blank for analytical batch 860-101662 contained Nitrate as N above the method detection limit (MDL); therefore, re-extraction and/or re-analysis of samples was not performed. The data have been qualified and reported.

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-27870-1

Date Collected: 05/02/23 11:50

Matrix: Water

Date Received: 05/02/23 15:58

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			05/03/23 22:20	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/03/23 22:20	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/03/23 22:20	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/03/23 22:20	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/03/23 22:20	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/03/23 22:20	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/03/23 22:20	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/03/23 22:20	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/03/23 22:20	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/03/23 22:20	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/03/23 22:20	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/03/23 22:20	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/03/23 22:20	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/03/23 22:20	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/03/23 22:20	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/03/23 22:20	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/03/23 22:20	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/03/23 22:20	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/03/23 22:20	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/03/23 22:20	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/03/23 22:20	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/03/23 22:20	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/03/23 22:20	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/03/23 22:20	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/03/23 22:20	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/03/23 22:20	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/03/23 22:20	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/03/23 22:20	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/03/23 22:20	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/03/23 22:20	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			05/03/23 22:20	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/03/23 22:20	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			05/03/23 22:20	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/03/23 22:20	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			05/03/23 22:20	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/03/23 22:20	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/03/23 22:20	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/03/23 22:20	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			05/03/23 22:20	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			05/03/23 22:20	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/03/23 22:20	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/03/23 22:20	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/03/23 22:20	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/03/23 22:20	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/03/23 22:20	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/03/23 22:20	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/03/23 22:20	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/03/23 22:20	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/03/23 22:20	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-27870-1

Date Collected: 05/02/23 11:50

Matrix: Water

Date Received: 05/02/23 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			05/03/23 22:20	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/03/23 22:20	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/03/23 22:20	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/03/23 22:20	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/03/23 22:20	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/03/23 22:20	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/03/23 22:20	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/03/23 22:20	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			05/03/23 22:20	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			05/03/23 22:20	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/03/23 22:20	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			05/03/23 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124		05/03/23 22:20	1
Dibromofluoromethane (Surr)	96		75 - 131		05/03/23 22:20	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		05/03/23 22:20	1
Toluene-d8 (Surr)	103		80 - 117		05/03/23 22:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.935	U	4.73	0.935 mg/L			05/08/23 14:39	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	<0.935	U	4.73	0.935 mg/L		05/05/23 16:22	05/06/23 16:10	1
Diesel Range Organics (Over C10-C28)	<0.935	U	4.73	0.935 mg/L		05/05/23 16:22	05/06/23 16:10	1
Oil Range Organics (Over C28-C36)	<0.902	U	4.73	0.902 mg/L		05/05/23 16:22	05/06/23 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 135	05/05/23 16:22	05/06/23 16:10	1
o-Terphenyl	104		70 - 135	05/05/23 16:22	05/06/23 16:10	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.2		0.500	0.250 mg/L			05/04/23 03:50	1
Nitrate as N	0.406	B	0.100	0.0391 mg/L			05/04/23 03:50	1
Fluoride	0.966		0.500	0.100 mg/L			05/04/23 03:50	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/04/23 03:50	1
Sulfate	51.8		0.500	0.200 mg/L			05/04/23 03:50	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	548		4.00	4.00 mg/L			05/04/23 11:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	548		4.00	4.00 mg/L			05/04/23 11:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/04/23 11:50	1
Carbon dioxide (SM 4500 CO2 D)	568			mg/L			05/04/23 09:32	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-27870-1

Client Sample ID: MW-1

Lab Sample ID: 880-27870-1

Date Collected: 05/02/23 11:50

Matrix: Water

Date Received: 05/02/23 15:58

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	86.9			mg/L			05/04/23 09:32	1
pH (SM 4500 H+ B)	7.1	HF		SU			05/04/23 13:00	1
Temperature (SM 4500 H+ B)	18.2	HF		Degrees C			05/04/23 13:00	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495 mg/L			05/04/23 12:46	1

Client Sample ID: MW-2

Lab Sample ID: 880-27870-2

Date Collected: 05/02/23 12:50

Matrix: Water

Date Received: 05/02/23 15:58

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0121		0.00100	0.000533 mg/L			05/03/23 22:41	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/03/23 22:41	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/03/23 22:41	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/03/23 22:41	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/03/23 22:41	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/03/23 22:41	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/03/23 22:41	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/03/23 22:41	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/03/23 22:41	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/03/23 22:41	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/03/23 22:41	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/03/23 22:41	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/03/23 22:41	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/03/23 22:41	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/03/23 22:41	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/03/23 22:41	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/03/23 22:41	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/03/23 22:41	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/03/23 22:41	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/03/23 22:41	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/03/23 22:41	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/03/23 22:41	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/03/23 22:41	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/03/23 22:41	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/03/23 22:41	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/03/23 22:41	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/03/23 22:41	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/03/23 22:41	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/03/23 22:41	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/03/23 22:41	1
Ethylbenzene	0.0115		0.00100	0.000411 mg/L			05/03/23 22:41	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/03/23 22:41	1
Isopropylbenzene	0.00615		0.00100	0.000613 mg/L			05/03/23 22:41	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/03/23 22:41	1
m,p-Xylenes	0.0350		0.0100	0.00124 mg/L			05/03/23 22:41	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/03/23 22:41	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/03/23 22:41	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/03/23 22:41	1

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Client Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-27870-2

Date Collected: 05/02/23 12:50

Matrix: Water

Date Received: 05/02/23 15:58

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	0.00169		0.00100	0.000498 mg/L			05/03/23 22:41	1
o-Xylene	0.00647		0.00100	0.000551 mg/L			05/03/23 22:41	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/03/23 22:41	1
sec-Butylbenzene	0.000716	J	0.00100	0.000468 mg/L			05/03/23 22:41	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/03/23 22:41	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/03/23 22:41	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/03/23 22:41	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/03/23 22:41	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/03/23 22:41	1
Toluene	0.00144		0.00100	0.000475 mg/L			05/03/23 22:41	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/03/23 22:41	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			05/03/23 22:41	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/03/23 22:41	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/03/23 22:41	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/03/23 22:41	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/03/23 22:41	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/03/23 22:41	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/03/23 22:41	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/03/23 22:41	1
1,2,4-Trimethylbenzene	0.0149		0.00100	0.000417 mg/L			05/03/23 22:41	1
1,3,5-Trimethylbenzene	0.00410		0.00100	0.000456 mg/L			05/03/23 22:41	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/03/23 22:41	1
Xylenes, Total	0.0415		0.0100	0.00124 mg/L			05/03/23 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		05/03/23 22:41	1
Dibromofluoromethane (Surr)	104		75 - 131		05/03/23 22:41	1
1,2-Dichloroethane-d4 (Surr)	110		63 - 144		05/03/23 22:41	1
Toluene-d8 (Surr)	102		80 - 117		05/03/23 22:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.19	J	4.97	0.981 mg/L			05/08/23 14:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.19	J	4.97	0.981 mg/L		05/05/23 16:22	05/06/23 16:30	1
Diesel Range Organics (Over C10-C28)	<0.981	U	4.97	0.981 mg/L		05/05/23 16:22	05/06/23 16:30	1
Oil Range Organics (Over C28-C36)	<0.947	U	4.97	0.947 mg/L		05/05/23 16:22	05/06/23 16:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 135			05/05/23 16:22	05/06/23 16:30	1
o-Terphenyl	92		70 - 135			05/05/23 16:22	05/06/23 16:30	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.4		0.500	0.250 mg/L			05/04/23 04:16	1
Nitrate as N	0.508	B	0.100	0.0391 mg/L			05/04/23 04:16	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/04/23 04:16	1

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Client Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-27870-2

Date Collected: 05/02/23 12:50

Matrix: Water

Date Received: 05/02/23 15:58

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.464		0.100	0.0293	mg/L			05/04/23 04:16	1
Sulfate	94.5		0.500	0.200	mg/L			05/04/23 04:16	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1310		4.00	4.00	mg/L			05/04/23 12:06	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1310		4.00	4.00	mg/L			05/04/23 12:06	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			05/04/23 12:06	1
Carbon dioxide (SM 4500 CO2 D)	2460				mg/L			05/04/23 09:32	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1310				mg/L			05/04/23 09:32	1
pH (SM 4500 H+ B)	6.3	HF			SU			05/04/23 13:03	1
Temperature (SM 4500 H+ B)	18.5	HF			Degrees C			05/04/23 13:03	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495	mg/L			05/04/23 12:46	1

Surrogate Summary

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

Job ID: 880-27870-1

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 (80-117)
880-27870-1	MW-1	103	96	104	103
880-27870-2	MW-2	97	104	110	102
LCS 860-101625/3	Lab Control Sample	102	110	97	102
LCSD 860-101625/4	Lab Control Sample Dup	101	107	99	99
MB 860-101625/8	Method Blank	105	101	101	105
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)
880-27870-1	MW-1	93	104
880-27870-2	MW-2	78	92
LCS 860-102015/2-A	Lab Control Sample	120	135
LCSD 860-102015/3-A	Lab Control Sample Dup	119	134
MB 860-102015/1-A	Method Blank	121	138 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-101625/8

Matrix: Water

Analysis Batch: 101625

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			05/03/23 20:17	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/03/23 20:17	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/03/23 20:17	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/03/23 20:17	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/03/23 20:17	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/03/23 20:17	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/03/23 20:17	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/03/23 20:17	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/03/23 20:17	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/03/23 20:17	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/03/23 20:17	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/03/23 20:17	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/03/23 20:17	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/03/23 20:17	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/03/23 20:17	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/03/23 20:17	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/03/23 20:17	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/03/23 20:17	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/03/23 20:17	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/03/23 20:17	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/03/23 20:17	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/03/23 20:17	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/03/23 20:17	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/03/23 20:17	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/03/23 20:17	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/03/23 20:17	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/03/23 20:17	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/03/23 20:17	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/03/23 20:17	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/03/23 20:17	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			05/03/23 20:17	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/03/23 20:17	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			05/03/23 20:17	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/03/23 20:17	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			05/03/23 20:17	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/03/23 20:17	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/03/23 20:17	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/03/23 20:17	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			05/03/23 20:17	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			05/03/23 20:17	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/03/23 20:17	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/03/23 20:17	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/03/23 20:17	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/03/23 20:17	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/03/23 20:17	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/03/23 20:17	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/03/23 20:17	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/03/23 20:17	1

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QC Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-101625/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 101625

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/03/23 20:17	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			05/03/23 20:17	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/03/23 20:17	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/03/23 20:17	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/03/23 20:17	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/03/23 20:17	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/03/23 20:17	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/03/23 20:17	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/03/23 20:17	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			05/03/23 20:17	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			05/03/23 20:17	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/03/23 20:17	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			05/03/23 20:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		74 - 124		05/03/23 20:17	1
Dibromofluoromethane (Surr)	101		75 - 131		05/03/23 20:17	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/03/23 20:17	1
Toluene-d8 (Surr)	105		80 - 117		05/03/23 20:17	1

Lab Sample ID: LCS 860-101625/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 101625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05080		mg/L		102	75 - 125
Bromobenzene	0.0500	0.05205		mg/L		104	75 - 125
Bromochloromethane	0.0500	0.05175		mg/L		103	60 - 140
Bromodichloromethane	0.0500	0.05424		mg/L		108	75 - 125
Bromoform	0.0500	0.05298		mg/L		106	70 - 130
Bromomethane	0.0500	0.06849		mg/L		137	60 - 140
2-Butanone	0.250	0.2455		mg/L		98	60 - 140
Carbon tetrachloride	0.0500	0.05381		mg/L		108	70 - 130
Chlorobenzene	0.0500	0.05110		mg/L		102	65 - 135
Chloroethane	0.0500	0.05697		mg/L		114	60 - 140
Chloroform	0.0500	0.05526		mg/L		111	70 - 121
Chloromethane	0.0500	0.05264		mg/L		105	60 - 140
2-Chlorotoluene	0.0500	0.05355		mg/L		107	73 - 125
4-Chlorotoluene	0.0500	0.05417		mg/L		108	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05296		mg/L		106	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05652		mg/L		113	74 - 125
Dibromochloromethane	0.0500	0.05311		mg/L		106	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05697		mg/L		114	59 - 125
1,2-Dibromoethane	0.0500	0.05223		mg/L		104	73 - 125
1,2-Dichlorobenzene	0.0500	0.05696		mg/L		114	75 - 125
1,3-Dichlorobenzene	0.0500	0.05238		mg/L		105	75 - 125
1,4-Dichlorobenzene	0.0500	0.05237		mg/L		105	75 - 125
Dichlorodifluoromethane	0.0500	0.04724		mg/L		94	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-101625/3

Matrix: Water

Analysis Batch: 101625

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	0.05355		mg/L		107	70 - 130
1,2-Dichloroethane	0.0500	0.04843		mg/L		97	72 - 130
1,1-Dichloroethene	0.0500	0.04682		mg/L		94	50 - 150
1,2-Dichloropropane	0.0500	0.05060		mg/L		101	74 - 125
1,3-Dichloropropane	0.0500	0.05049		mg/L		101	75 - 125
2,2-Dichloropropane	0.0500	0.05272		mg/L		105	75 - 125
1,1-Dichloropropene	0.0500	0.05064		mg/L		101	75 - 125
Ethylbenzene	0.0500	0.05157		mg/L		103	75 - 125
Hexachlorobutadiene	0.0500	0.05383		mg/L		108	75 - 125
Isopropylbenzene	0.0500	0.05258		mg/L		105	75 - 125
Methylene Chloride	0.0500	0.04800		mg/L		96	75 - 125
m,p-Xylenes	0.0500	0.05242		mg/L		105	75 - 125
MTBE	0.0500	0.05124		mg/L		102	65 - 135
Naphthalene	0.0500	0.05793		mg/L		116	70 - 130
n-Butylbenzene	0.0500	0.05632		mg/L		113	75 - 125
N-Propylbenzene	0.0500	0.05383		mg/L		108	75 - 125
o-Xylene	0.0500	0.05268		mg/L		105	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05321		mg/L		106	75 - 125
sec-Butylbenzene	0.0500	0.05301		mg/L		106	75 - 125
Styrene	0.0500	0.05231		mg/L		105	75 - 125
tert-Butylbenzene	0.0500	0.05276		mg/L		106	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05485		mg/L		110	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05124		mg/L		102	74 - 125
Tetrachloroethene	0.0500	0.04979		mg/L		100	71 - 125
Toluene	0.0500	0.05140		mg/L		103	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04981		mg/L		100	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05815		mg/L		116	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05643		mg/L		113	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05511		mg/L		110	75 - 135
1,1,1-Trichloroethane	0.0500	0.05091		mg/L		102	70 - 130
1,1,2-Trichloroethane	0.0500	0.05091		mg/L		102	70 - 130
Trichloroethene	0.0500	0.05077		mg/L		102	75 - 135
Trichlorofluoromethane	0.0500	0.05319		mg/L		106	60 - 140
1,2,3-Trichloropropane	0.0500	0.05184		mg/L		104	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05373		mg/L		107	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05399		mg/L		108	60 - 140
Vinyl chloride	0.0500	0.05498		mg/L		110	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	110		75 - 131
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
Toluene-d8 (Surr)	102		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-101625/4

Matrix: Water

Analysis Batch: 101625

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	0.04949		mg/L		99	75 - 125	3	25
Bromobenzene	0.0500	0.04871		mg/L		97	75 - 125	7	25
Bromochloromethane	0.0500	0.05026		mg/L		101	60 - 140	3	25
Bromodichloromethane	0.0500	0.05211		mg/L		104	75 - 125	4	25
Bromoform	0.0500	0.04929		mg/L		99	70 - 130	7	25
Bromomethane	0.0500	0.06091		mg/L		122	60 - 140	12	25
2-Butanone	0.250	0.2312		mg/L		92	60 - 140	6	25
Carbon tetrachloride	0.0500	0.05113		mg/L		102	70 - 130	5	25
Chlorobenzene	0.0500	0.04924		mg/L		98	65 - 135	4	25
Chloroethane	0.0500	0.05165		mg/L		103	60 - 140	10	25
Chloroform	0.0500	0.05100		mg/L		102	70 - 121	8	25
Chloromethane	0.0500	0.04764		mg/L		95	60 - 140	10	25
2-Chlorotoluene	0.0500	0.05059		mg/L		101	73 - 125	6	25
4-Chlorotoluene	0.0500	0.05141		mg/L		103	74 - 125	5	25
cis-1,2-Dichloroethene	0.0500	0.05015		mg/L		100	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.05336		mg/L		107	74 - 125	6	25
Dibromochloromethane	0.0500	0.05169		mg/L		103	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05423		mg/L		108	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.04949		mg/L		99	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.05257		mg/L		105	75 - 125	8	25
1,3-Dichlorobenzene	0.0500	0.05007		mg/L		100	75 - 125	5	25
1,4-Dichlorobenzene	0.0500	0.04983		mg/L		100	75 - 125	5	25
Dichlorodifluoromethane	0.0500	0.04382		mg/L		88	70 - 130	8	25
1,1-Dichloroethane	0.0500	0.04980		mg/L		100	70 - 130	7	25
1,2-Dichloroethane	0.0500	0.04812		mg/L		96	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.04347		mg/L		87	50 - 150	7	25
1,2-Dichloropropane	0.0500	0.04865		mg/L		97	74 - 125	4	25
1,3-Dichloropropane	0.0500	0.04843		mg/L		97	75 - 125	4	25
2,2-Dichloropropane	0.0500	0.05177		mg/L		104	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.04816		mg/L		96	75 - 125	5	25
Ethylbenzene	0.0500	0.04990		mg/L		100	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.05430		mg/L		109	75 - 125	1	25
Isopropylbenzene	0.0500	0.05140		mg/L		103	75 - 125	2	25
Methylene Chloride	0.0500	0.04336		mg/L		87	75 - 125	10	25
m,p-Xylenes	0.0500	0.04946		mg/L		99	75 - 125	6	25
MTBE	0.0500	0.04661		mg/L		93	65 - 135	9	25
Naphthalene	0.0500	0.05489		mg/L		110	70 - 130	5	25
n-Butylbenzene	0.0500	0.05572		mg/L		111	75 - 125	1	25
N-Propylbenzene	0.0500	0.05151		mg/L		103	75 - 125	4	25
o-Xylene	0.0500	0.05037		mg/L		101	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05226		mg/L		105	75 - 125	2	25
sec-Butylbenzene	0.0500	0.05225		mg/L		104	75 - 125	1	25
Styrene	0.0500	0.05018		mg/L		100	75 - 125	4	25
tert-Butylbenzene	0.0500	0.05128		mg/L		103	75 - 125	3	25
1,1,1,2-Tetrachloroethane	0.0500	0.05313		mg/L		106	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.04762		mg/L		95	74 - 125	7	25
Tetrachloroethene	0.0500	0.05018		mg/L		100	71 - 125	1	25
Toluene	0.0500	0.04893		mg/L		98	70 - 130	5	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-101625/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 101625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.04623		mg/L		92	75 - 125	7	25
trans-1,3-Dichloropropene	0.0500	0.05598		mg/L		112	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05516		mg/L		110	75 - 137	2	25
1,2,4-Trichlorobenzene	0.0500	0.05389		mg/L		108	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05256		mg/L		105	70 - 130	3	25
1,1,2-Trichloroethane	0.0500	0.04794		mg/L		96	70 - 130	6	25
Trichloroethene	0.0500	0.04951		mg/L		99	75 - 135	3	25
Trichlorofluoromethane	0.0500	0.05095		mg/L		102	60 - 140	4	25
1,2,3-Trichloropropane	0.0500	0.04795		mg/L		96	75 - 125	8	25
1,2,4-Trimethylbenzene	0.0500	0.05166		mg/L		103	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.05241		mg/L		105	60 - 140	3	25
Vinyl chloride	0.0500	0.05051		mg/L		101	60 - 140	8	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	107		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	99		80 - 117

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

Lab Sample ID: MB 860-102015/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 102056

Prep Batch: 102015

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		05/05/23 16:22	05/06/23 15:49	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		05/05/23 16:22	05/06/23 15:49	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		05/05/23 16:22	05/06/23 15:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 135	05/05/23 16:22	05/06/23 15:49	1
o-Terphenyl	138	S1+	70 - 135	05/05/23 16:22	05/06/23 15:49	1

Lab Sample ID: LCS 860-102015/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 102056

Prep Batch: 102015

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.5	126.3		mg/L		127	70 - 135
Diesel Range Organics (Over C10-C28)	99.6	112.1		mg/L		113	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	120		70 - 135
o-Terphenyl	135		70 - 135

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-102015/3-A

Matrix: Water

Analysis Batch: 102056

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102015

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.5	128.8		mg/L		129	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	99.6	116.0		mg/L		116	70 - 135	3	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	119		70 - 135						
o-Terphenyl	134		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-101661/13

Matrix: Water

Analysis Batch: 101661

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			05/03/23 22:18	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/03/23 22:18	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/03/23 22:18	1

Lab Sample ID: LCS 860-101661/14

Matrix: Water

Analysis Batch: 101661

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	10.08		mg/L		101	90 - 110
Fluoride	10.0	10.31		mg/L		103	90 - 110
Sulfate	10.0	9.714		mg/L		97	90 - 110

Lab Sample ID: LCSD 860-101661/15

Matrix: Water

Analysis Batch: 101661

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	10.02		mg/L		100	90 - 110	1	20
Fluoride	10.0	10.09		mg/L		101	90 - 110	2	20
Sulfate	10.0	9.647		mg/L		96	90 - 110	1	20

Lab Sample ID: LLCS 860-101661/17

Matrix: Water

Analysis Batch: 101661

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	0.5115		mg/L		102	50 - 150
Sulfate	0.500	0.4979	J	mg/L		100	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-27870-2 MS

Matrix: Water

Analysis Batch: 101661

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	78.4		10.0	85.04	4	mg/L		66	90 - 110
Fluoride	<0.100	U	10.0	9.940		mg/L		99	90 - 110
Sulfate	94.5		10.0	94.03	4	mg/L		-5	90 - 110

Lab Sample ID: 880-27870-2 MSD

Matrix: Water

Analysis Batch: 101661

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	78.4		10.0	86.64	4	mg/L		82	90 - 110	2	15
Fluoride	<0.100	U	10.0	9.887		mg/L		99	90 - 110	1	15
Sulfate	94.5		10.0	94.88	4	mg/L		3	90 - 110	1	15

Lab Sample ID: MB 860-101662/13

Matrix: Water

Analysis Batch: 101662

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.04085	J	0.100	0.0391 mg/L			05/03/23 22:18	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/03/23 22:18	1

Lab Sample ID: LCS 860-101662/14

Matrix: Water

Analysis Batch: 101662

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	9.910		mg/L		99	80 - 120
Nitrite as N	10.0	9.763		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-101662/15

Matrix: Water

Analysis Batch: 101662

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	9.891		mg/L		99	80 - 120	0	20
Nitrite as N	10.0	9.818		mg/L		98	80 - 120	1	20

Lab Sample ID: LLCS 860-101662/16

Matrix: Water

Analysis Batch: 101662

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	0.1340		mg/L		134	50 - 150
Nitrite as N	0.100	0.09346	J	mg/L		93	50 - 150

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QC Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-27870-2 MS

Matrix: Water

Analysis Batch: 101662

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.508	B	10.0	9.411		mg/L		89	80 - 120
Nitrite as N	0.464		2.50	2.475		mg/L		80	80 - 120

Lab Sample ID: 880-27870-2 MSD

Matrix: Water

Analysis Batch: 101662

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.508	B	10.0	9.425		mg/L		89	80 - 120	0	15
Nitrite as N	0.464		2.50	2.464		mg/L		80	80 - 120	0	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-101813/3

Matrix: Water

Analysis Batch: 101813

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			05/04/23 10:58	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/04/23 10:58	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/04/23 10:58	1

Lab Sample ID: LCS 860-101813/4

Matrix: Water

Analysis Batch: 101813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	246.7		mg/L		99	85 - 115

Lab Sample ID: LCSD 860-101813/5

Matrix: Water

Analysis Batch: 101813

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	246.2		mg/L		98	85 - 115	0	20

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-27870-1 DU

Matrix: Water

Analysis Batch: 101796

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.1	HF	7.1		SU		0.1	20
Temperature	18.2	HF	18.3		Degrees C		0.5	20

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QC Sample Results

Client: Ensolum

Job ID: 880-27870-1

Project/Site: South Hobbs - 03B1417002

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-101771/1

Matrix: Water

Analysis Batch: 101771

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	0.495 mg/L			05/04/23 12:46	1

Lab Sample ID: LCS 860-101771/2

Matrix: Water

Analysis Batch: 101771

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	50.0	43.80		mg/L		88	80 - 120

Lab Sample ID: LCSD 860-101771/3

Matrix: Water

Analysis Batch: 101771

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	50.0	43.80		mg/L		88	80 - 120	0	20

Lab Sample ID: 880-27870-1 MS

Matrix: Water

Analysis Batch: 101771

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
Sulfide	<0.495	U	50.0	43.00		mg/L		86	80 - 120

Lab Sample ID: 880-27870-1 MSD

Matrix: Water

Analysis Batch: 101771

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	50.0	43.00		mg/L		86	80 - 120	0	20

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-27870-1

GC/MS VOA

Analysis Batch: 101625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27870-1	MW-1	Total/NA	Water	8260C	
880-27870-2	MW-2	Total/NA	Water	8260C	
MB 860-101625/8	Method Blank	Total/NA	Water	8260C	
LCS 860-101625/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-101625/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27870-1	MW-1	Total/NA	Water	8015 NM	
880-27870-2	MW-2	Total/NA	Water	8015 NM	

Prep Batch: 102015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27870-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-27870-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-102015/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-102015/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-102015/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 102056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27870-1	MW-1	Total/NA	Water	8015B NM	102015
880-27870-2	MW-2	Total/NA	Water	8015B NM	102015
MB 860-102015/1-A	Method Blank	Total/NA	Water	8015B NM	102015
LCS 860-102015/2-A	Lab Control Sample	Total/NA	Water	8015B NM	102015
LCSD 860-102015/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	102015

HPLC/IC

Analysis Batch: 101661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27870-1	MW-1	Total/NA	Water	300.0	
880-27870-2	MW-2	Total/NA	Water	300.0	
MB 860-101661/13	Method Blank	Total/NA	Water	300.0	
LCS 860-101661/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-101661/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-101661/17	Lab Control Sample	Total/NA	Water	300.0	
880-27870-2 MS	MW-2	Total/NA	Water	300.0	
880-27870-2 MSD	MW-2	Total/NA	Water	300.0	

Analysis Batch: 101662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27870-1	MW-1	Total/NA	Water	300.0	
880-27870-2	MW-2	Total/NA	Water	300.0	
MB 860-101662/13	Method Blank	Total/NA	Water	300.0	
LCS 860-101662/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-101662/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-101662/16	Lab Control Sample	Total/NA	Water	300.0	
880-27870-2 MS	MW-2	Total/NA	Water	300.0	
880-27870-2 MSD	MW-2	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-27870-1

General Chemistry

Analysis Batch: 101715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27870-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-27870-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 101771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27870-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-27870-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-101771/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-101771/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-101771/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-27870-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-27870-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 101796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27870-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-27870-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-27870-1 DU	MW-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 101813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27870-1	MW-1	Total/NA	Water	SM 2320B	
880-27870-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-101813/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-101813/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-101813/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-27870-1

Client Sample ID: MW-1

Date Collected: 05/02/23 11:50

Date Received: 05/02/23 15:58

Lab Sample ID: 880-27870-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	101625	NA	EET HOU	05/03/23 22:20
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	05/08/23 14:39
Total/NA	Prep	8015NM Aq Prep			102015	SAR	EET HOU	05/05/23 16:22
Total/NA	Analysis	8015B NM		1	102056	T1S	EET HOU	05/06/23 16:10
Total/NA	Analysis	300.0		1	101661	WP	EET HOU	05/04/23 03:50
Total/NA	Analysis	300.0		1	101662	WP	EET HOU	05/04/23 03:50
Total/NA	Analysis	SM 2320B		1	101813	TL	EET HOU	05/04/23 11:50
Total/NA	Analysis	SM 4500 CO2 D		1	101715	SC	EET HOU	05/04/23 09:32
Total/NA	Analysis	SM 4500 H+ B		1	101796	TL	EET HOU	05/04/23 13:00
Total/NA	Analysis	SM 4500 S2 F		1	101771	SCI	EET HOU	05/04/23 12:46

Client Sample ID: MW-2

Date Collected: 05/02/23 12:50

Date Received: 05/02/23 15:58

Lab Sample ID: 880-27870-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	101625	NA	EET HOU	05/03/23 22:41
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	05/08/23 14:39
Total/NA	Prep	8015NM Aq Prep			102015	SAR	EET HOU	05/05/23 16:22
Total/NA	Analysis	8015B NM		1	102056	T1S	EET HOU	05/06/23 16:30
Total/NA	Analysis	300.0		1	101661	WP	EET HOU	05/04/23 04:16
Total/NA	Analysis	300.0		1	101662	WP	EET HOU	05/04/23 04:16
Total/NA	Analysis	SM 2320B		1	101813	TL	EET HOU	05/04/23 12:06
Total/NA	Analysis	SM 4500 CO2 D		1	101715	SC	EET HOU	05/04/23 09:32
Total/NA	Analysis	SM 4500 H+ B		1	101796	TL	EET HOU	05/04/23 13:03
Total/NA	Analysis	SM 4500 S2 F		1	101771	SCI	EET HOU	05/04/23 12:46

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: 880-27870-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	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: 880-27870-1

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 F	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	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: South Hobbs - 03B1417002

Job ID: 880-27870-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27870-1	MW-1	Water	05/02/23 11:50	05/02/23 15:58
880-27870-2	MW-2	Water	05/02/23 12:50	05/02/23 15:58

- 1
- 2
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Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland TX (432-704-5440) El Paso, TX (915)565-3443 Lubbock, TX (806)794-1296
Phoenix, AZ (480-355-0800) Atlanta GA (770-449-8800) Tampa FL (813) 251-3927
Hobbs NM (575-392-7550)

Chain of Custody

Work Order No: 25010

www.xenco.com Page 1 of 1

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:	bjennings@ensolum.com	

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

Project Name	South Hobbs	Turn Around
Project Number	03B1417002	
P. O. Number:	03B1417002	
Sampler's Name:	Shane Diller	
		Routine ☐ Rush 24 Hr ☐ Due Date

SAMPLE RECEIPT		Temp Blank	Yes	No	Wet Ice	Yes	No
Temperature (°C).							
Received intact:							
Cooler Custody Seals.							
Sample Custody Seals							

[illegible]

Number of Containers		ANALYSIS REQUEST	Work Order Notes
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			
TAT starts the day received by the lab if received by 4 30pm			
Sample Comments			

[illegible]

880-27870 Chain of Custody

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Tl	Sn	U	V	Zn
<i>Circle Method(s) and Metal(s) to be analyzed</i>			TC1P	/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 		5/2/23	2		
3 		1/5/8	4		
			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-27870-1

Login Number: 27870

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: 880-27870-1

Login Number: 27870

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 05/03/23 01:18 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/17/2023 9:48:19 AM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-28342-1

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
5/17/2023 9:48:19 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: 880-28342-1

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Definitions/Glossary

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

Job ID: 880-28342-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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
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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Definitions/Glossary

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

Job ID: 880-28342-1

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/Site: South Hobbs - 03B1417002

Job ID: 880-28342-1

Job ID: 880-28342-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-28342-1****Receipt**

The samples were received on 5/11/2023 3:52 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 5.4°C

GC/MS VOA

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 860-102880 recovered outside control limits for the following analytes: 1,1-Dichloropropene, Carbon tetrachloride and Dichloro difluoromethane.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 860-102880 recovered outside control limits for the following analytes: Dichloro difluoromethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

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

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: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for analytical batch 860-103246. 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 860-103280 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/) recovery is within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-103456 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFM_28D: Due to the high concentration of Chloride and Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-103456 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: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for analytical batch 860-103247. The associated laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300_ORGFMS: The following samples were analyzed outside of analytical holding time due to lab error: MW-1 (880-28342-1) and MW-2 (880-28342-2).

Method 300_ORGFMS: The method blank for analytical batch 860-103247 contained Nitrite as N above the method detection limit (MDL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_ORGFMS: The instrument blank/CCB for analytical batch 860-103247 contained Nitrite as N greater than the method detection limit (MDL); therefore, re-extraction and/or re-analysis of samples was not performed. The data have been qualified and reported.

Case Narrative

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

Job ID: 880-28342-1

Job ID: 880-28342-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

Method 300_ORGFMS: The method blank for analytical batch 860-103247 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.

Method 300_ORGFMS: The instrument blank/CCB for analytical batch 860-103247 contained Nitrite as N greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 860-103247 was outside control limits. Sample non-homogeneity is suspected.

Method 300_ORGFMS: The method blank for analytical batch 860-103281 contained Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_ORGFMS: Reanalysis of the following sample was performed outside of the analytical holding time due to <EXPLANATION_REQUIRED> : MW-1 (880-28342-1).

Method 300_ORGFMS: The following sample was analyzed outside of analytical holding time due to lab error: MW-1 (880-28342-1).

Method 300_ORGFMS: The instrument blank/CCB for analytical batch 860-103281 contained Nitrite as N greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

Method 300_ORGFMS: Reanalysis of the following sample was performed outside of the analytical holding time due to <EXPLANATION_REQUIRED> : MW-2 (880-28342-2).

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-28342-1

Date Collected: 05/11/23 12:05

Matrix: Water

Date Received: 05/11/23 15:52

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			05/12/23 20:41	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/12/23 20:41	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/12/23 20:41	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/12/23 20:41	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/12/23 20:41	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/12/23 20:41	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/12/23 20:41	1
Carbon tetrachloride	<0.000896	U *1	0.00500	0.000896 mg/L			05/12/23 20:41	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/12/23 20:41	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/12/23 20:41	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/12/23 20:41	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/12/23 20:41	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/12/23 20:41	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/12/23 20:41	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/12/23 20:41	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/12/23 20:41	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/12/23 20:41	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/12/23 20:41	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/12/23 20:41	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/12/23 20:41	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/12/23 20:41	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/12/23 20:41	1
Dichlorodifluoromethane	<0.000919	U *1	0.00100	0.000919 mg/L			05/12/23 20:41	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/12/23 20:41	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/12/23 20:41	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/12/23 20:41	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/12/23 20:41	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/12/23 20:41	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/12/23 20:41	1
1,1-Dichloropropene	<0.00160	U *1	0.00500	0.00160 mg/L			05/12/23 20:41	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			05/12/23 20:41	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/12/23 20:41	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			05/12/23 20:41	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/12/23 20:41	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			05/12/23 20:41	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/12/23 20:41	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/12/23 20:41	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/12/23 20:41	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			05/12/23 20:41	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			05/12/23 20:41	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/12/23 20:41	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/12/23 20:41	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/12/23 20:41	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/12/23 20:41	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/12/23 20:41	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/12/23 20:41	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/12/23 20:41	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/12/23 20:41	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/12/23 20:41	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-28342-1

Client Sample ID: MW-1

Lab Sample ID: 880-28342-1

Date Collected: 05/11/23 12:05

Matrix: Water

Date Received: 05/11/23 15:52

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			05/12/23 20:41	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217	mg/L			05/12/23 20:41	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			05/12/23 20:41	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169	mg/L			05/12/23 20:41	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511	mg/L			05/12/23 20:41	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			05/12/23 20:41	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638	mg/L			05/12/23 20:41	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490	mg/L			05/12/23 20:41	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L			05/12/23 20:41	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456	mg/L			05/12/23 20:41	1
Vinyl chloride	<0.000638	U	0.00200	0.000638	mg/L			05/12/23 20:41	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			05/12/23 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124					05/12/23 20:41	1
Dibromofluoromethane (Surr)	98		75 - 131					05/12/23 20:41	1
1,2-Dichloroethane-d4 (Surr)	110		63 - 144					05/12/23 20:41	1
Toluene-d8 (Surr)	107		80 - 117					05/12/23 20:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.912	U	4.62	0.912	mg/L			05/12/23 10:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.912	U	4.62	0.912	mg/L		05/12/23 18:16	05/12/23 22:12	1
Diesel Range Organics (Over C10-C28)	<0.912	U	4.62	0.912	mg/L		05/12/23 18:16	05/12/23 22:12	1
Oil Range Organics (Over C28-C36)	<0.880	U	4.62	0.880	mg/L		05/12/23 18:16	05/12/23 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135				05/12/23 18:16	05/12/23 22:12	1
o-Terphenyl	112		70 - 135				05/12/23 18:16	05/12/23 22:12	1

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		0.500	0.250	mg/L			05/15/23 23:28	1
Nitrate as N	0.174	H	0.100	0.0391	mg/L			05/15/23 23:28	1
Fluoride	0.676		0.500	0.100	mg/L			05/15/23 23:28	1
Nitrite as N	1.59	H B	0.100	0.0293	mg/L			05/15/23 23:28	1
Sulfate	59.7		0.500	0.200	mg/L			05/15/23 23:28	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	580		4.00	4.00	mg/L			05/15/23 15:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	580		4.00	4.00	mg/L			05/15/23 15:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			05/15/23 15:27	1
Carbon dioxide (SM 4500 CO2 D)	583				mg/L			05/16/23 15:07	1

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Client Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-28342-1

Date Collected: 05/11/23 12:05

Matrix: Water

Date Received: 05/11/23 15:52

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	73.0			mg/L			05/16/23 15:07	1
pH (SM 4500 H+ B)	7.2	HF		SU			05/15/23 13:06	1
Temperature (SM 4500 H+ B)	18.1	HF		Celsius			05/15/23 13:06	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495 mg/L			05/15/23 13:16	1

Client Sample ID: MW-2

Lab Sample ID: 880-28342-2

Date Collected: 05/11/23 13:05

Matrix: Water

Date Received: 05/11/23 15:52

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0133		0.00100	0.000533 mg/L			05/12/23 21:01	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/12/23 21:01	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/12/23 21:01	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/12/23 21:01	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/12/23 21:01	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/12/23 21:01	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/12/23 21:01	1
Carbon tetrachloride	<0.000896	U *1	0.00500	0.000896 mg/L			05/12/23 21:01	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/12/23 21:01	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/12/23 21:01	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/12/23 21:01	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/12/23 21:01	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/12/23 21:01	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/12/23 21:01	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/12/23 21:01	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/12/23 21:01	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/12/23 21:01	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/12/23 21:01	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/12/23 21:01	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/12/23 21:01	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/12/23 21:01	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/12/23 21:01	1
Dichlorodifluoromethane	<0.000919	U *1	0.00100	0.000919 mg/L			05/12/23 21:01	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/12/23 21:01	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/12/23 21:01	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/12/23 21:01	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/12/23 21:01	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/12/23 21:01	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/12/23 21:01	1
1,1-Dichloropropene	<0.00160	U *1	0.00500	0.00160 mg/L			05/12/23 21:01	1
Ethylbenzene	0.0174		0.00100	0.000411 mg/L			05/12/23 21:01	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/12/23 21:01	1
Isopropylbenzene	0.00753		0.00100	0.000613 mg/L			05/12/23 21:01	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/12/23 21:01	1
m,p-Xylenes	0.0412		0.0100	0.00124 mg/L			05/12/23 21:01	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/12/23 21:01	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/12/23 21:01	1
n-Butylbenzene	0.000666	J	0.00100	0.000644 mg/L			05/12/23 21:01	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-28342-2

Date Collected: 05/11/23 13:05

Matrix: Water

Date Received: 05/11/23 15:52

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	0.00239		0.00100	0.000498 mg/L			05/12/23 21:01	1
o-Xylene	0.0123		0.00100	0.000551 mg/L			05/12/23 21:01	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/12/23 21:01	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/12/23 21:01	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/12/23 21:01	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/12/23 21:01	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/12/23 21:01	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/12/23 21:01	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/12/23 21:01	1
Toluene	0.00355		0.00100	0.000475 mg/L			05/12/23 21:01	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/12/23 21:01	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			05/12/23 21:01	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/12/23 21:01	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/12/23 21:01	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/12/23 21:01	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/12/23 21:01	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/12/23 21:01	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/12/23 21:01	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/12/23 21:01	1
1,2,4-Trimethylbenzene	0.0187		0.00100	0.000417 mg/L			05/12/23 21:01	1
1,3,5-Trimethylbenzene	0.00536		0.00100	0.000456 mg/L			05/12/23 21:01	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/12/23 21:01	1
Xylenes, Total	0.0535		0.0100	0.00124 mg/L			05/12/23 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		05/12/23 21:01	1
Dibromofluoromethane (Surr)	97		75 - 131		05/12/23 21:01	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/12/23 21:01	1
Toluene-d8 (Surr)	112		80 - 117		05/12/23 21:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.29	J	4.60	0.909 mg/L			05/12/23 10:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.29	J	4.60	0.909	mg/L		05/12/23 18:16	05/12/23 22:32	1
Diesel Range Organics (Over C10-C28)	<0.909	U	4.60	0.909	mg/L		05/12/23 18:16	05/12/23 22:32	1
Oil Range Organics (Over C28-C36)	<0.877	U	4.60	0.877	mg/L		05/12/23 18:16	05/12/23 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 135				05/12/23 18:16	05/12/23 22:32	1
o-Terphenyl	94		70 - 135				05/12/23 18:16	05/12/23 22:32	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.3		0.500	0.250 mg/L			05/16/23 18:22	1
Nitrate as N	1.62	H	0.100	0.0391 mg/L			05/13/23 17:34	1
Fluoride	0.159	J	0.500	0.100 mg/L			05/16/23 18:22	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-28342-2

Date Collected: 05/11/23 13:05

Matrix: Water

Date Received: 05/11/23 15:52

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.427	H B	0.100	0.0293	mg/L			05/13/23 17:34	1
Sulfate	92.1		0.500	0.200	mg/L			05/16/23 18:22	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1280		4.00	4.00	mg/L			05/15/23 15:43	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1280		4.00	4.00	mg/L			05/15/23 15:43	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			05/15/23 15:43	1
Carbon dioxide (SM 4500 CO2 D)	2140				mg/L			05/16/23 15:07	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1020				mg/L			05/16/23 15:07	1
pH (SM 4500 H+ B)	6.4	HF			SU			05/15/23 13:06	1
Temperature (SM 4500 H+ B)	18.1	HF			Celsius			05/15/23 13:06	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495	mg/L			05/15/23 13:16	1

Surrogate Summary

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

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 (80-117)
880-28342-1	MW-1	96	98	110	107
880-28342-2	MW-2	100	97	102	112
LCS 860-102880/1011	Lab Control Sample	101	95	93	102
LCSD 860-102880/12	Lab Control Sample Dup	99	102	88	98
MB 860-102880/17	Method Blank	103	115	91	103
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)
880-28342-1	MW-1	98	112
880-28342-2	MW-2	79	94
LCS 860-103030/2-A	Lab Control Sample	106	113
LCSD 860-103030/3-A	Lab Control Sample Dup	105	111
MB 860-103030/1-A	Method Blank	81	91
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-102880/17

Matrix: Water

Analysis Batch: 102880

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			05/12/23 18:58	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/12/23 18:58	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/12/23 18:58	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/12/23 18:58	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/12/23 18:58	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/12/23 18:58	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/12/23 18:58	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/12/23 18:58	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/12/23 18:58	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/12/23 18:58	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/12/23 18:58	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/12/23 18:58	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/12/23 18:58	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/12/23 18:58	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/12/23 18:58	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/12/23 18:58	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/12/23 18:58	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/12/23 18:58	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/12/23 18:58	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/12/23 18:58	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/12/23 18:58	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/12/23 18:58	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/12/23 18:58	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/12/23 18:58	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/12/23 18:58	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/12/23 18:58	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/12/23 18:58	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/12/23 18:58	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/12/23 18:58	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/12/23 18:58	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			05/12/23 18:58	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/12/23 18:58	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			05/12/23 18:58	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/12/23 18:58	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			05/12/23 18:58	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/12/23 18:58	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/12/23 18:58	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/12/23 18:58	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			05/12/23 18:58	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			05/12/23 18:58	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/12/23 18:58	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/12/23 18:58	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/12/23 18:58	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/12/23 18:58	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/12/23 18:58	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/12/23 18:58	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/12/23 18:58	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/12/23 18:58	1

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QC Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-102880/17

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 102880

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/12/23 18:58	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			05/12/23 18:58	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/12/23 18:58	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/12/23 18:58	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/12/23 18:58	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/12/23 18:58	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/12/23 18:58	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/12/23 18:58	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/12/23 18:58	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			05/12/23 18:58	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			05/12/23 18:58	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/12/23 18:58	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			05/12/23 18:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124				05/12/23 18:58	1
Dibromofluoromethane (Surr)	115		75 - 131				05/12/23 18:58	1
1,2-Dichloroethane-d4 (Surr)	91		63 - 144				05/12/23 18:58	1
Toluene-d8 (Surr)	103		80 - 117				05/12/23 18:58	1

Lab Sample ID: LCS 860-102880/1011

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 102880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04331		mg/L		87	75 - 125
Bromobenzene	0.0500	0.04959		mg/L		99	75 - 125
Bromochloromethane	0.0500	0.05452		mg/L		109	60 - 140
Bromodichloromethane	0.0500	0.04713		mg/L		94	75 - 125
Bromoform	0.0500	0.05093		mg/L		102	70 - 130
Bromomethane	0.0500	0.03894		mg/L		78	60 - 140
2-Butanone	0.250	0.2684		mg/L		107	60 - 140
Carbon tetrachloride	0.0500	0.04331		mg/L		87	70 - 130
Chlorobenzene	0.0500	0.04795		mg/L		96	65 - 135
Chloroethane	0.0500	0.04192		mg/L		84	60 - 140
Chloroform	0.0500	0.05227		mg/L		105	70 - 121
Chloromethane	0.0500	0.04826		mg/L		97	60 - 140
2-Chlorotoluene	0.0500	0.05084		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.05108		mg/L		102	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05562		mg/L		111	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05162		mg/L		103	74 - 125
Dibromochloromethane	0.0500	0.04844		mg/L		97	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05656		mg/L		113	59 - 125
1,2-Dibromoethane	0.0500	0.04849		mg/L		97	73 - 125
1,2-Dichlorobenzene	0.0500	0.05215		mg/L		104	75 - 125
1,3-Dichlorobenzene	0.0500	0.05061		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05045		mg/L		101	75 - 125
Dichlorodifluoromethane	0.0500	0.05141		mg/L		103	50 - 150

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QC Sample Results

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

Job ID: 880-28342-1

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

Lab Sample ID: LCS 860-102880/1011

Matrix: Water

Analysis Batch: 102880

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	0.04062		mg/L		81	70 - 130
1,2-Dichloroethane	0.0500	0.04312		mg/L		86	72 - 130
1,1-Dichloroethene	0.0500	0.04161		mg/L		83	50 - 150
1,2-Dichloropropane	0.0500	0.04567		mg/L		91	74 - 125
1,3-Dichloropropane	0.0500	0.04686		mg/L		94	75 - 125
2,2-Dichloropropane	0.0500	0.05949		mg/L		119	75 - 125
1,1-Dichloropropene	0.0500	0.04231		mg/L		85	75 - 125
Ethylbenzene	0.0500	0.04956		mg/L		99	75 - 125
Hexachlorobutadiene	0.0500	0.05543		mg/L		111	75 - 125
Isopropylbenzene	0.0500	0.05141		mg/L		103	75 - 125
Methylene Chloride	0.0500	0.03869		mg/L		77	71 - 125
m,p-Xylenes	0.0500	0.04980		mg/L		100	75 - 125
MTBE	0.0500	0.04027		mg/L		81	65 - 135
Naphthalene	0.0500	0.06482		mg/L		130	70 - 130
n-Butylbenzene	0.0500	0.05181		mg/L		104	75 - 125
N-Propylbenzene	0.0500	0.04966		mg/L		99	75 - 125
o-Xylene	0.0500	0.05046		mg/L		101	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05005		mg/L		100	75 - 125
sec-Butylbenzene	0.0500	0.05182		mg/L		104	75 - 125
Styrene	0.0500	0.05219		mg/L		104	75 - 125
tert-Butylbenzene	0.0500	0.05131		mg/L		103	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05060		mg/L		101	72 - 125
1,1,1,2,2-Tetrachloroethane	0.0500	0.05130		mg/L		103	74 - 125
Tetrachloroethene	0.0500	0.04842		mg/L		97	71 - 125
Toluene	0.0500	0.04697		mg/L		94	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04110		mg/L		82	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05504		mg/L		110	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.06040		mg/L		121	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05719		mg/L		114	75 - 135
1,1,1-Trichloroethane	0.0500	0.04658		mg/L		93	70 - 130
1,1,2-Trichloroethane	0.0500	0.04807		mg/L		96	70 - 130
Trichloroethene	0.0500	0.05275		mg/L		106	75 - 135
Trichlorofluoromethane	0.0500	0.04545		mg/L		91	60 - 140
1,2,3-Trichloropropane	0.0500	0.04874		mg/L		97	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04986		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05017		mg/L		100	60 - 140
Vinyl chloride	0.0500	0.04364		mg/L		87	60 - 140

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	95		75 - 131
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
Toluene-d8 (Surr)	102		80 - 117

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QC Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-102880/12

Matrix: Water

Analysis Batch: 102880

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	0.04558		mg/L		91	75 - 125	5	25
Bromobenzene	0.0500	0.04944		mg/L		99	75 - 125	0	25
Bromochloromethane	0.0500	0.05160		mg/L		103	60 - 140	6	25
Bromodichloromethane	0.0500	0.05098		mg/L		102	75 - 125	8	25
Bromoform	0.0500	0.05034		mg/L		101	70 - 130	1	25
Bromomethane	0.0500	0.03902		mg/L		78	60 - 140	0	25
2-Butanone	0.250	0.2967		mg/L		119	60 - 140	10	25
Carbon tetrachloride	0.0500	0.05814	*1	mg/L		116	70 - 130	29	25
Chlorobenzene	0.0500	0.04954		mg/L		99	65 - 135	3	25
Chloroethane	0.0500	0.04237		mg/L		85	60 - 140	1	25
Chloroform	0.0500	0.05154		mg/L		103	70 - 121	1	25
Chloromethane	0.0500	0.05839		mg/L		117	60 - 140	19	25
2-Chlorotoluene	0.0500	0.04957		mg/L		99	73 - 125	3	25
4-Chlorotoluene	0.0500	0.05067		mg/L		101	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.05978		mg/L		120	75 - 125	7	25
cis-1,3-Dichloropropene	0.0500	0.05264		mg/L		105	74 - 125	2	25
Dibromochloromethane	0.0500	0.04993		mg/L		100	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05752		mg/L		115	59 - 125	2	25
1,2-Dibromoethane	0.0500	0.04968		mg/L		99	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05163		mg/L		103	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.04948		mg/L		99	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04893		mg/L		98	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.06821	*1	mg/L		136	50 - 150	28	25
1,1-Dichloroethane	0.0500	0.04067		mg/L		81	70 - 130	0	25
1,2-Dichloroethane	0.0500	0.04596		mg/L		92	72 - 130	6	25
1,1-Dichloroethene	0.0500	0.04301		mg/L		86	50 - 150	3	25
1,2-Dichloropropane	0.0500	0.05089		mg/L		102	74 - 125	11	25
1,3-Dichloropropane	0.0500	0.04748		mg/L		95	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05929		mg/L		119	75 - 125	0	25
1,1-Dichloropropene	0.0500	0.05525	*1	mg/L		111	75 - 125	27	25
Ethylbenzene	0.0500	0.04930		mg/L		99	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05421		mg/L		108	75 - 125	2	25
Isopropylbenzene	0.0500	0.05179		mg/L		104	75 - 125	1	25
Methylene Chloride	0.0500	0.03952		mg/L		79	71 - 125	2	25
m,p-Xylenes	0.0500	0.04988		mg/L		100	75 - 125	0	25
MTBE	0.0500	0.04117		mg/L		82	65 - 135	2	25
Naphthalene	0.0500	0.06352		mg/L		127	70 - 130	2	25
n-Butylbenzene	0.0500	0.05244		mg/L		105	75 - 125	1	25
N-Propylbenzene	0.0500	0.05138		mg/L		103	75 - 125	3	25
o-Xylene	0.0500	0.05133		mg/L		103	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05112		mg/L		102	75 - 125	2	25
sec-Butylbenzene	0.0500	0.05213		mg/L		104	75 - 125	1	25
Styrene	0.0500	0.05228		mg/L		105	75 - 125	0	25
tert-Butylbenzene	0.0500	0.05176		mg/L		104	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.05088		mg/L		102	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05193		mg/L		104	74 - 125	1	25
Tetrachloroethene	0.0500	0.04840		mg/L		97	71 - 125	0	25
Toluene	0.0500	0.04810		mg/L		96	70 - 130	2	25

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QC Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-102880/12

Matrix: Water

Analysis Batch: 102880

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	0.04345		mg/L		87	75 - 125	6	25
trans-1,3-Dichloropropene	0.0500	0.04970		mg/L		99	66 - 125	10	25
1,2,3-Trichlorobenzene	0.0500	0.05812		mg/L		116	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.05436		mg/L		109	75 - 135	5	25
1,1,1-Trichloroethane	0.0500	0.05246		mg/L		105	70 - 130	12	25
1,1,2-Trichloroethane	0.0500	0.05018		mg/L		100	70 - 130	4	25
Trichloroethene	0.0500	0.05051		mg/L		101	75 - 135	4	25
Trichlorofluoromethane	0.0500	0.04912		mg/L		98	60 - 140	8	25
1,2,3-Trichloropropane	0.0500	0.04959		mg/L		99	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.04939		mg/L		99	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.05135		mg/L		103	60 - 140	2	25
Vinyl chloride	0.0500	0.04678		mg/L		94	60 - 140	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	88		63 - 144
Toluene-d8 (Surr)	98		80 - 117

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

Lab Sample ID: MB 860-103030/1-A

Matrix: Water

Analysis Batch: 102930

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103030

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		05/12/23 18:16	05/12/23 21:52	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		05/12/23 18:16	05/12/23 21:52	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		05/12/23 18:16	05/12/23 21:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 135	05/12/23 18:16	05/12/23 21:52	1
o-Terphenyl	91		70 - 135	05/12/23 18:16	05/12/23 21:52	1

Lab Sample ID: LCS 860-103030/2-A

Matrix: Water

Analysis Batch: 102930

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.9	106.5		mg/L		107	70 - 135
Diesel Range Organics (Over C10-C28)	99.7	102.7		mg/L		103	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 135
o-Terphenyl	113		70 - 135

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-103030/3-A

Matrix: Water

Analysis Batch: 102930

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103030

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
			Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10			99.9	104.3		mg/L		104	70 - 135	2	35
Diesel Range Organics (Over C10-C28)			99.7	101.3		mg/L		102	70 - 135	1	35
Surrogate											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 135								
o-Terphenyl	111		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-103246/3

Matrix: Water

Analysis Batch: 103246

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<0.250	U	0.500	mg/L			05/13/23 15:34	1
Fluoride	<0.100	U	0.500	mg/L			05/13/23 15:34	1
Sulfate	<0.200	U	0.500	mg/L			05/13/23 15:34	1

Lab Sample ID: LCS 860-103246/4

Matrix: Water

Analysis Batch: 103246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							Limits	
Chloride	10.0	10.19		mg/L		102	90 - 110	
Fluoride	10.0	10.57		mg/L		106	90 - 110	
Sulfate	10.0	10.44		mg/L		104	90 - 110	

Lab Sample ID: LCSD 860-103246/5

Matrix: Water

Analysis Batch: 103246

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		
Chloride	10.0	10.20		mg/L		102	90 - 110	0	20
Fluoride	10.0	10.57		mg/L		106	90 - 110	0	20
Sulfate	10.0	10.35		mg/L		104	90 - 110	1	20

Lab Sample ID: LLCS 860-103246/7

Matrix: Water

Analysis Batch: 103246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
							Limits	
Chloride	0.500	0.4900	J	mg/L		98	50 - 150	
Fluoride	0.500	0.5192		mg/L		104	50 - 150	
Sulfate	0.500	0.4863	J	mg/L		97	50 - 150	

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-103247/3

Matrix: Water

Analysis Batch: 103247

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			05/13/23 15:34	1
Nitrite as N	0.04287	J	0.100	0.0293	mg/L			05/13/23 15:34	1

Lab Sample ID: LCS 860-103247/4

Matrix: Water

Analysis Batch: 103247

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	10.31		mg/L		103	80 - 120
Nitrite as N	10.0	10.07		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-103247/5

Matrix: Water

Analysis Batch: 103247

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	10.31		mg/L		103	80 - 120	0	20
Nitrite as N	10.0	10.07		mg/L		101	80 - 120	0	20

Lab Sample ID: LLCS 860-103247/6

Matrix: Water

Analysis Batch: 103247

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	0.1142		mg/L		114	50 - 150
Nitrite as N	0.100	0.1358		mg/L		136	50 - 150

Lab Sample ID: MB 860-103280/3

Matrix: Water

Analysis Batch: 103280

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			05/15/23 15:04	1
Fluoride	<0.100	U	0.500	0.100	mg/L			05/15/23 15:04	1
Sulfate	<0.200	U	0.500	0.200	mg/L			05/15/23 15:04	1

Lab Sample ID: MB 860-103280/38

Matrix: Water

Analysis Batch: 103280

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			05/15/23 21:38	1
Fluoride	<0.100	U	0.500	0.100	mg/L			05/15/23 21:38	1
Sulfate	<0.200	U	0.500	0.200	mg/L			05/15/23 21:38	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-103280/39

Matrix: Water

Analysis Batch: 103280

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	10.17		mg/L		102	90 - 110
Fluoride	10.0	10.74		mg/L		107	90 - 110
Sulfate	10.0	10.28		mg/L		103	90 - 110

Lab Sample ID: LCSD 860-103280/40

Matrix: Water

Analysis Batch: 103280

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	10.17		mg/L		102	90 - 110	0	20
Fluoride	10.0	10.72		mg/L		107	90 - 110	0	20
Sulfate	10.0	10.27		mg/L		103	90 - 110	0	20

Lab Sample ID: LLCS 860-103280/7

Matrix: Water

Analysis Batch: 103280

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	0.4596	J	mg/L		92	50 - 150
Fluoride	0.500	0.4994	J	mg/L		100	50 - 150
Sulfate	0.500	0.4524	J	mg/L		90	50 - 150

Lab Sample ID: MB 860-103281/3

Matrix: Water

Analysis Batch: 103281

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			05/15/23 15:04	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/15/23 15:04	1

Lab Sample ID: MB 860-103281/38

Matrix: Water

Analysis Batch: 103281

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			05/15/23 21:38	1
Nitrite as N	0.03566	J	0.100	0.0293 mg/L			05/15/23 21:38	1

Lab Sample ID: LCS 860-103281/39

Matrix: Water

Analysis Batch: 103281

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	10.28		mg/L		103	80 - 120
Nitrite as N	10.0	10.15		mg/L		101	80 - 120

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QC Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-103281/40

Matrix: Water

Analysis Batch: 103281

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
Nitrate as N	10.0	10.28		mg/L		103	80 - 120		0	20
Nitrite as N	10.0	10.14		mg/L		101	80 - 120		0	20

Lab Sample ID: LLCS 860-103281/6

Matrix: Water

Analysis Batch: 103281

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	0.1063		mg/L		106	50 - 150	
Nitrite as N	0.100	0.1275		mg/L		128	50 - 150	

Lab Sample ID: MB 860-103456/3

Matrix: Water

Analysis Batch: 103456

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<0.250	U	0.500	mg/L			05/16/23 14:26	1
Fluoride	<0.100	U	0.500	mg/L			05/16/23 14:26	1
Sulfate	<0.200	U	0.500	mg/L			05/16/23 14:26	1

Lab Sample ID: LCS 860-103456/4

Matrix: Water

Analysis Batch: 103456

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	10.05		mg/L		101	90 - 110	
Fluoride	10.0	10.46		mg/L		105	90 - 110	
Sulfate	10.0	10.13		mg/L		101	90 - 110	

Lab Sample ID: LCSD 860-103456/5

Matrix: Water

Analysis Batch: 103456

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
Chloride	10.0	10.05		mg/L		101	90 - 110		0	20
Fluoride	10.0	10.50		mg/L		105	90 - 110		0	20
Sulfate	10.0	10.11		mg/L		101	90 - 110		0	20

Lab Sample ID: LLCS 860-103456/7

Matrix: Water

Analysis Batch: 103456

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	0.4441	J	mg/L		89	50 - 150	
Fluoride	0.500	0.4397	J	mg/L		88	50 - 150	
Sulfate	0.500	0.4488	J	mg/L		90	50 - 150	

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QC Sample Results

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-103309/3

Matrix: Water

Analysis Batch: 103309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	mg/L			05/15/23 11:44	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			05/15/23 11:44	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			05/15/23 11:44	1

Lab Sample ID: LCS 860-103309/4

Matrix: Water

Analysis Batch: 103309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	230.6		mg/L		92	85 - 115

Lab Sample ID: LCSD 860-103309/5

Matrix: Water

Analysis Batch: 103309

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	235.8		mg/L		94	85 - 115	2	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-103251/1

Matrix: Water

Analysis Batch: 103251

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	mg/L			05/15/23 13:16	1

Lab Sample ID: LCS 860-103251/2

Matrix: Water

Analysis Batch: 103251

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	50.0	45.80		mg/L		92	80 - 120

Lab Sample ID: LCSD 860-103251/3

Matrix: Water

Analysis Batch: 103251

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	50.0	45.80		mg/L		92	80 - 120	0	20

Lab Sample ID: 880-28342-2 MS

Matrix: Water

Analysis Batch: 103251

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.495	U	50.0	45.40		mg/L		91	80 - 120

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QC Sample Results

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

Job ID: 880-28342-1

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

Lab Sample ID: 880-28342-2 MSD							Client Sample ID: MW-2					
Matrix: Water							Prep Type: Total/NA					
Analysis Batch: 103251												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Sulfide	<0.495	U	50.0	45.40		mg/L		91	80 - 120	0	20	

QC Association Summary

Client: Ensolum

Job ID: 880-28342-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 102880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28342-1	MW-1	Total/NA	Water	8260C	
880-28342-2	MW-2	Total/NA	Water	8260C	
MB 860-102880/17	Method Blank	Total/NA	Water	8260C	
LCS 860-102880/1011	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-102880/12	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28342-1	MW-1	Total/NA	Water	8015 NM	
880-28342-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 102930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28342-1	MW-1	Total/NA	Water	8015B NM	103030
880-28342-2	MW-2	Total/NA	Water	8015B NM	103030
MB 860-103030/1-A	Method Blank	Total/NA	Water	8015B NM	103030
LCS 860-103030/2-A	Lab Control Sample	Total/NA	Water	8015B NM	103030
LCSD 860-103030/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	103030

Prep Batch: 103030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28342-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-28342-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-103030/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-103030/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-103030/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 103246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-103246/3	Method Blank	Total/NA	Water	300.0	
LCS 860-103246/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-103246/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103246/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 103247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28342-2	MW-2	Total/NA	Water	300.0	
MB 860-103247/3	Method Blank	Total/NA	Water	300.0	
LCS 860-103247/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-103247/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103247/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 103280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28342-1	MW-1	Total/NA	Water	300.0	
MB 860-103280/3	Method Blank	Total/NA	Water	300.0	
MB 860-103280/38	Method Blank	Total/NA	Water	300.0	
LCS 860-103280/39	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-28342-1

HPLC/IC (Continued)

Analysis Batch: 103280 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-103280/40	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103280/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 103281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28342-1	MW-1	Total/NA	Water	300.0	
MB 860-103281/3	Method Blank	Total/NA	Water	300.0	
MB 860-103281/38	Method Blank	Total/NA	Water	300.0	
LCS 860-103281/39	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-103281/40	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103281/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 103456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28342-2	MW-2	Total/NA	Water	300.0	
MB 860-103456/3	Method Blank	Total/NA	Water	300.0	
LCS 860-103456/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-103456/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103456/7	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 103245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28342-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-28342-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 103251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28342-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-28342-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-103251/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-103251/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-103251/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-28342-2 MS	MW-2	Total/NA	Water	SM 4500 S2 F	
880-28342-2 MSD	MW-2	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 103309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28342-1	MW-1	Total/NA	Water	SM 2320B	
880-28342-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-103309/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-103309/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-103309/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 103482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28342-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-28342-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-28342-1

Client Sample ID: MW-1

Date Collected: 05/11/23 12:05

Date Received: 05/11/23 15:52

Lab Sample ID: 880-28342-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	102880	NA	EET HOU	05/12/23 20:41
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	05/12/23 10:05
Total/NA	Prep	8015NM Aq Prep			103030	MCA	EET HOU	05/12/23 18:16
Total/NA	Analysis	8015B NM		1	102930	T1S	EET HOU	05/12/23 22:12
Total/NA	Analysis	300.0		1	103280	WP	EET HOU	05/15/23 23:28
Total/NA	Analysis	300.0		1	103281	WP	EET HOU	05/15/23 23:28
Total/NA	Analysis	SM 2320B		1	103309	TL	EET HOU	05/15/23 15:27
Total/NA	Analysis	SM 4500 CO2 D		1	103482	SC	EET HOU	05/16/23 15:07
Total/NA	Analysis	SM 4500 H+ B		1	103245	TL	EET HOU	05/15/23 13:06
Total/NA	Analysis	SM 4500 S2 F		1	103251	SCI	EET HOU	05/15/23 13:16

Client Sample ID: MW-2

Date Collected: 05/11/23 13:05

Date Received: 05/11/23 15:52

Lab Sample ID: 880-28342-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	102880	NA	EET HOU	05/12/23 21:01
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	05/12/23 10:05
Total/NA	Prep	8015NM Aq Prep			103030	MCA	EET HOU	05/12/23 18:16
Total/NA	Analysis	8015B NM		1	102930	T1S	EET HOU	05/12/23 22:32
Total/NA	Analysis	300.0		1	103247	RBNS	EET HOU	05/13/23 17:34
Total/NA	Analysis	300.0		1	103456	WP	EET HOU	05/16/23 18:22
Total/NA	Analysis	SM 2320B		1	103309	TL	EET HOU	05/15/23 15:43
Total/NA	Analysis	SM 4500 CO2 D		1	103482	SC	EET HOU	05/16/23 15:07
Total/NA	Analysis	SM 4500 H+ B		1	103245	TL	EET HOU	05/15/23 13:06
Total/NA	Analysis	SM 4500 S2 F		1	103251	SCI	EET HOU	05/15/23 13:16

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: 880-28342-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	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: 880-28342-1

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 F	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	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: South Hobbs - 03B1417002

Job ID: 880-28342-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28342-1	MW-1	Water	05/11/23 12:05	05/11/23 15:52
880-28342-2	MW-2	Water	05/11/23 13:05	05/11/23 15:52

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Work Order No: 20342

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

Revised Date 051418 Rev 2018.

Sid 350_746849



Client Information (Sub Contract Lab)				Sampler: Kramer Jessica Lab Pk: Kramer Jessica Phone: Jessica.Kramer@et.eurofins.com E-Mail: Jessica.Kramer@et.eurofins.com		Carrier/Tracking No(s): 880-6989 1 State of Origin: New Mexico Page: Page 1 of 1		COC No: 880-6989 1 Job #: 880-28342-1																																																	
Company: Eurofins Environment Testing South Cent Address: 4145 Greenbriar Dr City: Stafford State, Zip: TX, 77477 Phone: 281-240-4200(Tel) Email: 281-240-4200(Tel)				Due Date Requested: 5/15/2023 TAT Requested (days): 		Analysis Requested <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Sample</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (G=Grab)</th> <th>Matrix (Water, Seawater, Urine, etc.)</th> <th>Field Filled Sample (Yes or No)</th> <th>SM4500 CO2 D (MOD) Carbon Dioxide</th> <th>SM4500 H+</th> <th>SM4500 S2 F Sulfide, Total</th> <th>8280C/8030C (MOD) Full LIQ VOCs</th> <th>8015MOD NM/8015NM Aq Prep (MOD) Full TPH</th> <th>300 ORGFM 280 (MOD) Custom List</th> <th>300 ORGFM (MOD) Custom List</th> <th>2320B (MOD) Copy Analytes</th> <th>8015MOD Calc</th> <th>Total Number of Containers</th> </tr> <tr> <td>MW-1 (880-28342-1)</td> <td>5/11/23</td> <td>12:05</td> <td>Mountain</td> <td>Water</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>7</td> </tr> <tr> <td>MW-2 (880-28342-2)</td> <td>5/11/23</td> <td>13:05</td> <td>Mountain</td> <td>Water</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>7</td> </tr> </table>				Sample	Sample Date	Sample Time	Sample Type (G=Grab)	Matrix (Water, Seawater, Urine, etc.)	Field Filled Sample (Yes or No)	SM4500 CO2 D (MOD) Carbon Dioxide	SM4500 H+	SM4500 S2 F Sulfide, Total	8280C/8030C (MOD) Full LIQ VOCs	8015MOD NM/8015NM Aq Prep (MOD) Full TPH	300 ORGFM 280 (MOD) Custom List	300 ORGFM (MOD) Custom List	2320B (MOD) Copy Analytes	8015MOD Calc	Total Number of Containers	MW-1 (880-28342-1)	5/11/23	12:05	Mountain	Water			X	X	X	X	X	X	X	X	7	MW-2 (880-28342-2)	5/11/23	13:05	Mountain	Water			X	X	X	X	X	X	X	X	7
Sample	Sample Date	Sample Time	Sample Type (G=Grab)	Matrix (Water, Seawater, Urine, etc.)	Field Filled Sample (Yes or No)	SM4500 CO2 D (MOD) Carbon Dioxide	SM4500 H+	SM4500 S2 F Sulfide, Total	8280C/8030C (MOD) Full LIQ VOCs	8015MOD NM/8015NM Aq Prep (MOD) Full TPH	300 ORGFM 280 (MOD) Custom List	300 ORGFM (MOD) Custom List	2320B (MOD) Copy Analytes	8015MOD Calc	Total Number of Containers																																										
MW-1 (880-28342-1)	5/11/23	12:05	Mountain	Water			X	X	X	X	X	X	X	X	7																																										
MW-2 (880-28342-2)	5/11/23	13:05	Mountain	Water			X	X	X	X	X	X	X	X	7																																										
Project Name: South Hobbs Project #: 03B1417002 Site: South Hobbs				Preservation Code: 		Special Instructions/Note: 																																																			

Possible Hazard Identification Unconfirmed Deliverable Requested: I II III IV Other (specify) 		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months	
Empty Kit Relinquished by: Kramer Jessica Relinquished by: FedEx Relinquished by: FedEx Relinquished by: FedEx		Method of Shipment: FedEx Date/Time: 5/12/23 12:12 PM Date/Time: 5/12/23 12:12 PM Date/Time: 5/12/23 12:12 PM	

Custody Seal No. 109 A Yes A No		Cooler Temperature(s) °C and Other Remarks: Temp: 109 IR ID HOU-345 C/F -0.4	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-28342-1

Login Number: 28342

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: 880-28342-1

Login Number: 28342

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 05/12/23 02:43 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.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/25/2023 9:10:20 AM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-28426-1

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
5/25/2023 9:10:20 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: 880-28426-1

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Definitions/Glossary

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

Job ID: 880-28426-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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
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	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 880-28426-1

Job ID: 880-28426-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-28426-1

Receipt

The samples were received on 5/15/2023 2:56 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 5.5°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-103355 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 instrument blank/CCB for analytical batch 860-103457 contained Nitrite as N greater than the method detection limit (MDL); therefore, re-extraction and/or re-analysis of samples was not performed. The data have been qualified and reported.

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: 880-28426-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-28426-1

Date Collected: 05/15/23 11:30

Matrix: Water

Date Received: 05/15/23 14:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			05/16/23 15:24	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/16/23 15:24	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/16/23 15:24	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/16/23 15:24	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/16/23 15:24	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/16/23 15:24	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/16/23 15:24	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/16/23 15:24	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/16/23 15:24	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/16/23 15:24	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/16/23 15:24	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/16/23 15:24	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/16/23 15:24	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/16/23 15:24	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/16/23 15:24	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/16/23 15:24	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/16/23 15:24	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/16/23 15:24	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/16/23 15:24	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/16/23 15:24	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/16/23 15:24	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/16/23 15:24	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/16/23 15:24	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/16/23 15:24	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/16/23 15:24	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/16/23 15:24	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/16/23 15:24	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/16/23 15:24	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/16/23 15:24	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/16/23 15:24	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			05/16/23 15:24	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/16/23 15:24	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			05/16/23 15:24	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/16/23 15:24	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			05/16/23 15:24	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/16/23 15:24	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/16/23 15:24	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/16/23 15:24	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			05/16/23 15:24	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			05/16/23 15:24	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/16/23 15:24	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/16/23 15:24	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/16/23 15:24	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/16/23 15:24	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/16/23 15:24	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/16/23 15:24	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/16/23 15:24	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/16/23 15:24	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/16/23 15:24	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-28426-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-28426-1

Date Collected: 05/15/23 11:30

Matrix: Water

Date Received: 05/15/23 14:56

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			05/16/23 15:24	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/16/23 15:24	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/16/23 15:24	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/16/23 15:24	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/16/23 15:24	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/16/23 15:24	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/16/23 15:24	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/16/23 15:24	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			05/16/23 15:24	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			05/16/23 15:24	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/16/23 15:24	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			05/16/23 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		05/16/23 15:24	1
Dibromofluoromethane (Surr)	95		75 - 131		05/16/23 15:24	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/16/23 15:24	1
Toluene-d8 (Surr)	102		80 - 117		05/16/23 15:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.920	U	4.66	0.920 mg/L			05/17/23 10:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.920	U	4.66	0.920 mg/L		05/17/23 10:31	05/17/23 15:18	1
Diesel Range Organics (Over C10-C28)	<0.920	U	4.66	0.920 mg/L		05/17/23 10:31	05/17/23 15:18	1
Oil Range Organics (Over C28-C36)	<0.888	U	4.66	0.888 mg/L		05/17/23 10:31	05/17/23 15:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135			05/17/23 10:31	05/17/23 15:18	1
o-Terphenyl	94		70 - 135			05/17/23 10:31	05/17/23 15:18	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.6		0.500	0.250 mg/L			05/16/23 23:09	1
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			05/16/23 23:09	1
Fluoride	0.859		0.500	0.100 mg/L			05/16/23 23:09	1
Nitrite as N	0.998		0.100	0.0293 mg/L			05/16/23 23:09	1
Sulfate	53.6		0.500	0.200 mg/L			05/16/23 23:09	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	579		4.00	4.00 mg/L			05/17/23 14:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	579		4.00	4.00 mg/L			05/17/23 14:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/17/23 14:32	1
Carbon dioxide (SM 4500 CO2 D)	625			mg/L			05/16/23 15:07	1

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Client Sample Results

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

Job ID: 880-28426-1

Client Sample ID: MW-1

Lab Sample ID: 880-28426-1

Date Collected: 05/15/23 11:30

Matrix: Water

Date Received: 05/15/23 14:56

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	116			mg/L			05/16/23 15:07	1
pH (SM 4500 H+ B)	7.0	HF		SU			05/17/23 13:04	1
Temperature (SM 4500 H+ B)	16.4	HF		Degrees C			05/17/23 13:04	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495 mg/L			05/16/23 16:55	1

Client Sample ID: MW-2

Lab Sample ID: 880-28426-2

Date Collected: 05/15/23 12:40

Matrix: Water

Date Received: 05/15/23 14:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00988		0.00100	0.000533 mg/L			05/16/23 15:45	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/16/23 15:45	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/16/23 15:45	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/16/23 15:45	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/16/23 15:45	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/16/23 15:45	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/16/23 15:45	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/16/23 15:45	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/16/23 15:45	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/16/23 15:45	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/16/23 15:45	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/16/23 15:45	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/16/23 15:45	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/16/23 15:45	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/16/23 15:45	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/16/23 15:45	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/16/23 15:45	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/16/23 15:45	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/16/23 15:45	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/16/23 15:45	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/16/23 15:45	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/16/23 15:45	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/16/23 15:45	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/16/23 15:45	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/16/23 15:45	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/16/23 15:45	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/16/23 15:45	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/16/23 15:45	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/16/23 15:45	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/16/23 15:45	1
Ethylbenzene	0.00646		0.00100	0.000411 mg/L			05/16/23 15:45	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/16/23 15:45	1
Isopropylbenzene	0.00524		0.00100	0.000613 mg/L			05/16/23 15:45	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/16/23 15:45	1
m,p-Xylenes	0.0253		0.0100	0.00124 mg/L			05/16/23 15:45	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/16/23 15:45	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/16/23 15:45	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/16/23 15:45	1

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Client Sample Results

Client: Ensolum

Job ID: 880-28426-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-28426-2

Date Collected: 05/15/23 12:40

Matrix: Water

Date Received: 05/15/23 14:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	0.00122		0.00100	0.000498 mg/L			05/16/23 15:45	1
o-Xylene	0.00425		0.00100	0.000551 mg/L			05/16/23 15:45	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/16/23 15:45	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/16/23 15:45	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/16/23 15:45	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/16/23 15:45	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/16/23 15:45	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/16/23 15:45	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/16/23 15:45	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/16/23 15:45	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/16/23 15:45	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			05/16/23 15:45	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/16/23 15:45	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/16/23 15:45	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/16/23 15:45	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/16/23 15:45	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/16/23 15:45	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/16/23 15:45	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/16/23 15:45	1
1,2,4-Trimethylbenzene	0.0137		0.00100	0.000417 mg/L			05/16/23 15:45	1
1,3,5-Trimethylbenzene	0.00304		0.00100	0.000456 mg/L			05/16/23 15:45	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/16/23 15:45	1
Xylenes, Total	0.0296		0.0100	0.00124 mg/L			05/16/23 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		05/16/23 15:45	1
Dibromofluoromethane (Surr)	95		75 - 131		05/16/23 15:45	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		05/16/23 15:45	1
Toluene-d8 (Surr)	112		80 - 117		05/16/23 15:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.906	U	4.59	0.906 mg/L			05/17/23 10:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.906	U	4.59	0.906 mg/L		05/17/23 10:31	05/17/23 15:38	1
Diesel Range Organics (Over C10-C28)	<0.906	U	4.59	0.906 mg/L		05/17/23 10:31	05/17/23 15:38	1
Oil Range Organics (Over C28-C36)	<0.875	U	4.59	0.875 mg/L		05/17/23 10:31	05/17/23 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	05/17/23 10:31	05/17/23 15:38	1
o-Terphenyl	93		70 - 135	05/17/23 10:31	05/17/23 15:38	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.7		0.500	0.250 mg/L			05/16/23 23:46	1
Nitrate as N	0.886		0.100	0.0391 mg/L			05/16/23 23:46	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/16/23 23:46	1

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Client Sample Results

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

Job ID: 880-28426-1

Client Sample ID: MW-2
Date Collected: 05/15/23 12:40
Date Received: 05/15/23 14:56

Lab Sample ID: 880-28426-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.245		0.100	0.0293	mg/L			05/16/23 23:46	1
Sulfate	86.7		0.500	0.200	mg/L			05/16/23 23:46	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1210		4.00	4.00	mg/L			05/17/23 14:47	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1210		4.00	4.00	mg/L			05/17/23 14:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			05/17/23 14:47	1
Carbon dioxide (SM 4500 CO2 D)	2270				mg/L			05/16/23 15:07	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1210				mg/L			05/16/23 15:07	1
pH (SM 4500 H+ B)	6.3	HF			SU			05/17/23 13:07	1
Temperature (SM 4500 H+ B)	16.3	HF			Degrees C			05/17/23 13:07	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495	mg/L			05/16/23 16:55	1

Surrogate Summary

Client: Ensolum

Job ID: 880-28426-1

Project/Site: South Hobbs - 03B1417002

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 (80-117)
880-28426-1	MW-1	100	95	99	102
880-28426-2	MW-2	100	95	103	112
LCS 860-103355/3	Lab Control Sample	88	91	99	99
LCSD 860-103355/4	Lab Control Sample Dup	91	94	103	95
MB 860-103355/9	Method Blank	102	95	93	104
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-28426-1	MW-1	97	94
880-28426-2	MW-2	95	93
LCS 860-103617/2-A	Lab Control Sample	93	90
LCSD 860-103617/3-A	Lab Control Sample Dup	92	86
MB 860-103617/1-A	Method Blank	87	90
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-28426-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-103355/9

Matrix: Water

Analysis Batch: 103355

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			05/16/23 10:37	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/16/23 10:37	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/16/23 10:37	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/16/23 10:37	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/16/23 10:37	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/16/23 10:37	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/16/23 10:37	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/16/23 10:37	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/16/23 10:37	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/16/23 10:37	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/16/23 10:37	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/16/23 10:37	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/16/23 10:37	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/16/23 10:37	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/16/23 10:37	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/16/23 10:37	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/16/23 10:37	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/16/23 10:37	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/16/23 10:37	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/16/23 10:37	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/16/23 10:37	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/16/23 10:37	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/16/23 10:37	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/16/23 10:37	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/16/23 10:37	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/16/23 10:37	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/16/23 10:37	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/16/23 10:37	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/16/23 10:37	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/16/23 10:37	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			05/16/23 10:37	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/16/23 10:37	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			05/16/23 10:37	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/16/23 10:37	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			05/16/23 10:37	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/16/23 10:37	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/16/23 10:37	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/16/23 10:37	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			05/16/23 10:37	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			05/16/23 10:37	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/16/23 10:37	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/16/23 10:37	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/16/23 10:37	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/16/23 10:37	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/16/23 10:37	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/16/23 10:37	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/16/23 10:37	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/16/23 10:37	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-28426-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-103355/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 103355

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/16/23 10:37	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			05/16/23 10:37	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/16/23 10:37	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/16/23 10:37	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/16/23 10:37	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/16/23 10:37	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/16/23 10:37	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/16/23 10:37	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/16/23 10:37	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			05/16/23 10:37	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			05/16/23 10:37	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/16/23 10:37	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			05/16/23 10:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		05/16/23 10:37	1
Dibromofluoromethane (Surr)	95		75 - 131		05/16/23 10:37	1
1,2-Dichloroethane-d4 (Surr)	93		63 - 144		05/16/23 10:37	1
Toluene-d8 (Surr)	104		80 - 117		05/16/23 10:37	1

Lab Sample ID: LCS 860-103355/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 103355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04859		mg/L		97	75 - 125
Bromobenzene	0.0500	0.05337		mg/L		107	75 - 125
Bromochloromethane	0.0500	0.05122		mg/L		102	60 - 140
Bromodichloromethane	0.0500	0.05464		mg/L		109	75 - 125
Bromoform	0.0500	0.06338		mg/L		127	70 - 130
Bromomethane	0.0500	0.05268		mg/L		105	60 - 140
2-Butanone	0.250	0.2468		mg/L		99	60 - 140
Carbon tetrachloride	0.0500	0.04928		mg/L		99	70 - 130
Chlorobenzene	0.0500	0.05358		mg/L		107	65 - 135
Chloroethane	0.0500	0.05087		mg/L		102	60 - 140
Chloroform	0.0500	0.05169		mg/L		103	70 - 121
Chloromethane	0.0500	0.03429		mg/L		69	60 - 140
2-Chlorotoluene	0.0500	0.04328		mg/L		87	73 - 125
4-Chlorotoluene	0.0500	0.04890		mg/L		98	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04639		mg/L		93	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05190		mg/L		104	74 - 125
Dibromochloromethane	0.0500	0.05667		mg/L		113	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05210		mg/L		104	59 - 125
1,2-Dibromoethane	0.0500	0.05623		mg/L		112	73 - 125
1,2-Dichlorobenzene	0.0500	0.05387		mg/L		108	75 - 125
1,3-Dichlorobenzene	0.0500	0.05360		mg/L		107	75 - 125
1,4-Dichlorobenzene	0.0500	0.05115		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.04207		mg/L		84	50 - 150

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QC Sample Results

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

Job ID: 880-28426-1

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

Lab Sample ID: LCS 860-103355/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 103355							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04487		mg/L		90	70 - 130
1,2-Dichloroethane	0.0500	0.05708		mg/L		114	72 - 130
1,1-Dichloroethene	0.0500	0.05097		mg/L		102	50 - 150
1,2-Dichloropropane	0.0500	0.04786		mg/L		96	74 - 125
1,3-Dichloropropane	0.0500	0.05335		mg/L		107	75 - 125
2,2-Dichloropropane	0.0500	0.05110		mg/L		102	75 - 125
1,1-Dichloropropene	0.0500	0.04551		mg/L		91	75 - 125
Ethylbenzene	0.0500	0.05058		mg/L		101	75 - 125
Hexachlorobutadiene	0.0500	0.04990		mg/L		100	75 - 125
Isopropylbenzene	0.0500	0.05449		mg/L		109	75 - 125
Methylene Chloride	0.0500	0.05028		mg/L		101	71 - 125
m,p-Xylenes	0.0500	0.05527		mg/L		111	75 - 125
MTBE	0.0500	0.05187		mg/L		104	65 - 135
Naphthalene	0.0500	0.05175		mg/L		104	70 - 130
n-Butylbenzene	0.0500	0.04633		mg/L		93	75 - 125
N-Propylbenzene	0.0500	0.04515		mg/L		90	75 - 125
o-Xylene	0.0500	0.05348		mg/L		107	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04923		mg/L		98	75 - 125
sec-Butylbenzene	0.0500	0.04716		mg/L		94	75 - 125
Styrene	0.0500	0.05663		mg/L		113	75 - 125
tert-Butylbenzene	0.0500	0.04695		mg/L		94	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05539		mg/L		111	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04802		mg/L		96	74 - 125
Tetrachloroethene	0.0500	0.05508		mg/L		110	71 - 125
Toluene	0.0500	0.04835		mg/L		97	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04783		mg/L		96	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05322		mg/L		106	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05076		mg/L		102	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05309		mg/L		106	75 - 135
1,1,1-Trichloroethane	0.0500	0.04979		mg/L		100	70 - 130
1,1,2-Trichloroethane	0.0500	0.05150		mg/L		103	70 - 130
Trichloroethene	0.0500	0.05389		mg/L		108	75 - 135
Trichlorofluoromethane	0.0500	0.05142		mg/L		103	60 - 140
1,2,3-Trichloropropane	0.0500	0.04573		mg/L		91	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04839		mg/L		97	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04955		mg/L		99	60 - 140
Vinyl chloride	0.0500	0.04409		mg/L		88	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	88		74 - 124				
Dibromofluoromethane (Surr)	91		75 - 131				
1,2-Dichloroethane-d4 (Surr)	99		63 - 144				
Toluene-d8 (Surr)	99		80 - 117				

QC Sample Results

Client: Ensolum

Job ID: 880-28426-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-103355/4

Matrix: Water

Analysis Batch: 103355

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	0.04907		mg/L		98	75 - 125	1	25
Bromobenzene	0.0500	0.05282		mg/L		106	75 - 125	1	25
Bromochloromethane	0.0500	0.05308		mg/L		106	60 - 140	4	25
Bromodichloromethane	0.0500	0.05345		mg/L		107	75 - 125	2	25
Bromoform	0.0500	0.06345		mg/L		127	70 - 130	0	25
Bromomethane	0.0500	0.05125		mg/L		103	60 - 140	3	25
2-Butanone	0.250	0.2624		mg/L		105	60 - 140	6	25
Carbon tetrachloride	0.0500	0.05189		mg/L		104	70 - 130	5	25
Chlorobenzene	0.0500	0.05387		mg/L		108	65 - 135	1	25
Chloroethane	0.0500	0.05398		mg/L		108	60 - 140	6	25
Chloroform	0.0500	0.05165		mg/L		103	70 - 121	0	25
Chloromethane	0.0500	0.03608		mg/L		72	60 - 140	5	25
2-Chlorotoluene	0.0500	0.05119		mg/L		102	73 - 125	17	25
4-Chlorotoluene	0.0500	0.05001		mg/L		100	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.04689		mg/L		94	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.05186		mg/L		104	74 - 125	0	25
Dibromochloromethane	0.0500	0.05782		mg/L		116	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05153		mg/L		103	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.05642		mg/L		113	73 - 125	0	25
1,2-Dichlorobenzene	0.0500	0.05448		mg/L		109	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.05365		mg/L		107	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.05493		mg/L		110	75 - 125	7	25
Dichlorodifluoromethane	0.0500	0.04491		mg/L		90	50 - 150	7	25
1,1-Dichloroethane	0.0500	0.04658		mg/L		93	70 - 130	4	25
1,2-Dichloroethane	0.0500	0.05530		mg/L		111	72 - 130	3	25
1,1-Dichloroethene	0.0500	0.05636		mg/L		113	50 - 150	10	25
1,2-Dichloropropane	0.0500	0.04987		mg/L		100	74 - 125	4	25
1,3-Dichloropropane	0.0500	0.05201		mg/L		104	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05361		mg/L		107	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.04833		mg/L		97	75 - 125	6	25
Ethylbenzene	0.0500	0.05156		mg/L		103	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.05275		mg/L		105	75 - 125	6	25
Isopropylbenzene	0.0500	0.05644		mg/L		113	75 - 125	4	25
Methylene Chloride	0.0500	0.05355		mg/L		107	71 - 125	6	25
m,p-Xylenes	0.0500	0.05561		mg/L		111	75 - 125	1	25
MTBE	0.0500	0.05351		mg/L		107	65 - 135	3	25
Naphthalene	0.0500	0.05403		mg/L		108	70 - 130	4	25
n-Butylbenzene	0.0500	0.04938		mg/L		99	75 - 125	6	25
N-Propylbenzene	0.0500	0.04783		mg/L		96	75 - 125	6	25
o-Xylene	0.0500	0.05480		mg/L		110	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05112		mg/L		102	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05061		mg/L		101	75 - 125	7	25
Styrene	0.0500	0.05495		mg/L		110	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04961		mg/L		99	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.05852		mg/L		117	72 - 125	5	25
1,1,2,2-Tetrachloroethane	0.0500	0.05008		mg/L		100	74 - 125	4	25
Tetrachloroethene	0.0500	0.05400		mg/L		108	71 - 125	2	25
Toluene	0.0500	0.04851		mg/L		97	70 - 130	0	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-28426-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-103355/4

Matrix: Water

Analysis Batch: 103355

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	0.04690		mg/L		94	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.05255		mg/L		105	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.05263		mg/L		105	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.05418		mg/L		108	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05099		mg/L		102	70 - 130	2	25
1,1,2-Trichloroethane	0.0500	0.05202		mg/L		104	70 - 130	1	25
Trichloroethene	0.0500	0.05502		mg/L		110	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.05047		mg/L		101	60 - 140	2	25
1,2,3-Trichloropropane	0.0500	0.04852		mg/L		97	75 - 125	6	25
1,2,4-Trimethylbenzene	0.0500	0.05058		mg/L		101	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.05235		mg/L		105	60 - 140	5	25
Vinyl chloride	0.0500	0.04648		mg/L		93	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		74 - 124
Dibromofluoromethane (Surr)	94		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	95		80 - 117

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

Lab Sample ID: MB 860-103617/1-A

Matrix: Water

Analysis Batch: 103601

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103617

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		05/17/23 10:31	05/17/23 14:37	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		05/17/23 10:31	05/17/23 14:37	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		05/17/23 10:31	05/17/23 14:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135	05/17/23 10:31	05/17/23 14:37	1
o-Terphenyl	90		70 - 135	05/17/23 10:31	05/17/23 14:37	1

Lab Sample ID: LCS 860-103617/2-A

Matrix: Water

Analysis Batch: 103601

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.9	106.8		mg/L		107	70 - 135
Diesel Range Organics (Over C10-C28)	99.7	87.82		mg/L		88	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	93		70 - 135
o-Terphenyl	90		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-28426-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-103617/3-A

Matrix: Water

Analysis Batch: 103601

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103617

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.9	109.4		mg/L		109	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	99.7	88.24		mg/L		88	70 - 135	0	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	92		70 - 135						
o-Terphenyl	86		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-103456/3

Matrix: Water

Analysis Batch: 103456

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			05/16/23 14:26	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/16/23 14:26	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/16/23 14:26	1

Lab Sample ID: LCS 860-103456/4

Matrix: Water

Analysis Batch: 103456

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	10.05		mg/L		101	90 - 110
Fluoride	10.0	10.46		mg/L		105	90 - 110
Sulfate	10.0	10.13		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-103456/5

Matrix: Water

Analysis Batch: 103456

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	10.05		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.50		mg/L		105	90 - 110	0	20
Sulfate	10.0	10.11		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-103456/7

Matrix: Water

Analysis Batch: 103456

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	0.4441	J	mg/L		89	50 - 150
Fluoride	0.500	0.4397	J	mg/L		88	50 - 150
Sulfate	0.500	0.4488	J	mg/L		90	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-28426-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-28426-1 MS

Matrix: Water

Analysis Batch: 103456

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	97.6		10.0	107.0	4	mg/L		94	90 - 110
Fluoride	0.859		10.0	9.868		mg/L		90	90 - 110
Sulfate	53.6		10.0	62.63	4	mg/L		90	90 - 110

Lab Sample ID: 880-28426-1 MSD

Matrix: Water

Analysis Batch: 103456

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	97.6		10.0	107.1	4	mg/L		95	90 - 110	0	15
Fluoride	0.859		10.0	9.918		mg/L		91	90 - 110	1	15
Sulfate	53.6		10.0	62.69	4	mg/L		91	90 - 110	0	15

Lab Sample ID: MB 860-103457/3

Matrix: Water

Analysis Batch: 103457

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			05/16/23 14:26	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/16/23 14:26	1

Lab Sample ID: LCS 860-103457/4

Matrix: Water

Analysis Batch: 103457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	10.22		mg/L		102	80 - 120
Nitrite as N	10.0	10.05		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-103457/5

Matrix: Water

Analysis Batch: 103457

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	10.22		mg/L		102	80 - 120	0	20
Nitrite as N	10.0	10.05		mg/L		100	80 - 120	0	20

Lab Sample ID: LLCS 860-103457/6

Matrix: Water

Analysis Batch: 103457

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	0.1000		mg/L		100	50 - 150
Nitrite as N	0.100	0.1143		mg/L		114	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-28426-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-28426-1 MS

Matrix: Water

Analysis Batch: 103457

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.0391	U	10.0	9.556		mg/L		96	80 - 120
Nitrite as N	0.998		2.50	3.335		mg/L		93	80 - 120

Lab Sample ID: 880-28426-1 MSD

Matrix: Water

Analysis Batch: 103457

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.0391	U	10.0	9.561		mg/L		96	80 - 120	0	15
Nitrite as N	0.998		2.50	3.314		mg/L		93	80 - 120	1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-103721/3

Matrix: Water

Analysis Batch: 103721

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			05/17/23 11:19	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/17/23 11:19	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			05/17/23 11:19	1

Lab Sample ID: LCS 860-103721/4

Matrix: Water

Analysis Batch: 103721

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	240.0		mg/L		96	85 - 115

Lab Sample ID: LCSD 860-103721/5

Matrix: Water

Analysis Batch: 103721

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	240.6		mg/L		96	85 - 115	0	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-103521/9

Matrix: Water

Analysis Batch: 103521

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	0.495 mg/L			05/16/23 16:55	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-28426-1

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

Lab Sample ID: LCS 860-103521/10					Client Sample ID: Lab Control Sample						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 103521											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			50.0	45.20		mg/L		90	80 - 120		

Lab Sample ID: LCSD 860-103521/11					Client Sample ID: Lab Control Sample Dup						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 103521											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			50.0	45.20		mg/L		90	80 - 120	0	20

Lab Sample ID: 880-28426-1 MS					Client Sample ID: MW-1						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 103521											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.495	U	50.0	44.40		mg/L		89	80 - 120		

Lab Sample ID: 880-28426-1 MSD					Client Sample ID: MW-1						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 103521											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	50.0	44.40		mg/L		89	80 - 120	0	20

QC Association Summary

Client: Ensolum

Job ID: 880-28426-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 103355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28426-1	MW-1	Total/NA	Water	8260C	
880-28426-2	MW-2	Total/NA	Water	8260C	
MB 860-103355/9	Method Blank	Total/NA	Water	8260C	
LCS 860-103355/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-103355/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28426-1	MW-1	Total/NA	Water	8015 NM	
880-28426-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 103601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28426-1	MW-1	Total/NA	Water	8015B NM	103617
880-28426-2	MW-2	Total/NA	Water	8015B NM	103617
MB 860-103617/1-A	Method Blank	Total/NA	Water	8015B NM	103617
LCS 860-103617/2-A	Lab Control Sample	Total/NA	Water	8015B NM	103617
LCSD 860-103617/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	103617

Prep Batch: 103617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28426-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-28426-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-103617/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-103617/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-103617/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 103456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28426-1	MW-1	Total/NA	Water	300.0	
880-28426-2	MW-2	Total/NA	Water	300.0	
MB 860-103456/3	Method Blank	Total/NA	Water	300.0	
LCS 860-103456/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-103456/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103456/7	Lab Control Sample	Total/NA	Water	300.0	
880-28426-1 MS	MW-1	Total/NA	Water	300.0	
880-28426-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 103457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28426-1	MW-1	Total/NA	Water	300.0	
880-28426-2	MW-2	Total/NA	Water	300.0	
MB 860-103457/3	Method Blank	Total/NA	Water	300.0	
LCS 860-103457/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-103457/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103457/6	Lab Control Sample	Total/NA	Water	300.0	
880-28426-1 MS	MW-1	Total/NA	Water	300.0	
880-28426-1 MSD	MW-1	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-28426-1

General Chemistry

Analysis Batch: 103482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28426-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-28426-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 103521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28426-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-28426-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-103521/9	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-103521/10	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-103521/11	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-28426-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-28426-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 103698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28426-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-28426-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 103721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28426-1	MW-1	Total/NA	Water	SM 2320B	
880-28426-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-103721/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-103721/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-103721/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-28426-1

Client Sample ID: MW-1

Date Collected: 05/15/23 11:30

Date Received: 05/15/23 14:56

Lab Sample ID: 880-28426-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	103355	NA	EET HOU	05/16/23 15:24
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	05/17/23 10:05
Total/NA	Prep	8015NM Aq Prep			103617	MCA	EET HOU	05/17/23 10:31
Total/NA	Analysis	8015B NM		1	103601	T1S	EET HOU	05/17/23 15:18
Total/NA	Analysis	300.0		1	103456	WP	EET HOU	05/16/23 23:09
Total/NA	Analysis	300.0		1	103457	WP	EET HOU	05/16/23 23:09
Total/NA	Analysis	SM 2320B		1	103721	TL	EET HOU	05/17/23 14:32
Total/NA	Analysis	SM 4500 CO2 D		1	103482	SC	EET HOU	05/16/23 15:07
Total/NA	Analysis	SM 4500 H+ B		1	103698	TL	EET HOU	05/17/23 13:04
Total/NA	Analysis	SM 4500 S2 F		1	103521	SCI	EET HOU	05/16/23 16:55

Client Sample ID: MW-2

Date Collected: 05/15/23 12:40

Date Received: 05/15/23 14:56

Lab Sample ID: 880-28426-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	103355	NA	EET HOU	05/16/23 15:45
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	05/17/23 10:05
Total/NA	Prep	8015NM Aq Prep			103617	MCA	EET HOU	05/17/23 10:31
Total/NA	Analysis	8015B NM		1	103601	T1S	EET HOU	05/17/23 15:38
Total/NA	Analysis	300.0		1	103456	WP	EET HOU	05/16/23 23:46
Total/NA	Analysis	300.0		1	103457	WP	EET HOU	05/16/23 23:46
Total/NA	Analysis	SM 2320B		1	103721	TL	EET HOU	05/17/23 14:47
Total/NA	Analysis	SM 4500 CO2 D		1	103482	SC	EET HOU	05/16/23 15:07
Total/NA	Analysis	SM 4500 H+ B		1	103698	TL	EET HOU	05/17/23 13:07
Total/NA	Analysis	SM 4500 S2 F		1	103521	SCI	EET HOU	05/16/23 16:55

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: 880-28426-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	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: 880-28426-1

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 F	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	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: South Hobbs - 03B1417002

Job ID: 880-28426-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28426-1	MW-1	Water	05/15/23 11:30	05/15/23 14:56
880-28426-2	MW-2	Water	05/15/23 12:40	05/15/23 14:56

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)

Work Order No: 20426

www.xenco.com Page 1 of 1

Project Manager:	Beaux Jennings	Bill to (if different)
Company Name:	Ensolum LLC	Company Name:
Address:	601 Marlenfeld #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 ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ ADaPT ☐ Other	

ANALYSIS REQUEST				Turn Around		Work Order Notes	
Project Name:	South Hobbs			Routine ☐			
Project Number:	03B1417002			Rush 24 Hr			
P O Number:	03B1417002						
Sampler's Name	Shane Diller			Due Date			
SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☐ No ☒		
Temperature (°C):		S-815.5		Thermometer ID:			
Received Intact:		Yes ☒ No ☐		Correction Factor:		-30	
Cooler Custody Seals:		Yes ☐ No ☒	Yes ☒ No ☐	Total Containers:			
Sample Custody Seals:		Yes ☐ No ☒	Yes ☒ No ☐				
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers		
MW-1	GW	5-15-23	1130	-	7		
MW-2	GW	5-15-23	1240	-	7		
NIE 5-15-23 SL							
880-28426 Chain of Custody							
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		5/15/23	2		
3		1450	4		
5			6		

Revised Date 05/14/18 Rev 2018 1

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-28426-1

Login Number: 28426

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: 880-28426-1

Login Number: 28426

List Number: 2

Creator: Canadilla, Surelis

List Source: Eurofins Houston

List Creation: 05/16/23 01:18 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 6/2/2023 7:42:39 AM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-28809-1

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
6/2/2023 7:42:39 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: 880-28809-1

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Definitions/Glossary

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

Job ID: 880-28809-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-28809-1

Glossary (Continued)

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

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

Case Narrative

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

Job ID: 880-28809-1

Job ID: 880-28809-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-28809-1****Receipt**

The samples were received on 5/25/2023 2:42 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 12.4°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-105169 recovered above the upper control limit for 2,2-Dichloropropane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-105169/2).

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-105169 recovered outside control limits for the following analytes Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: Due to the high concentration of targets, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-105169 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

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 860-105111 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFMS: The method blank for analytical batch 860-105392 contained Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_ORGFMS: Reanalysis of the following samples were performed outside of the analytical holding time due to <EXPLANATION_REQUIRED> : MW-1 (880-28809-1) and MW-2 (880-28809-2).

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-28809-1

Date Collected: 05/25/23 10:30

Matrix: Water

Date Received: 05/25/23 14:42

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			05/27/23 14:43	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/27/23 14:43	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/27/23 14:43	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/27/23 14:43	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/27/23 14:43	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/27/23 14:43	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/27/23 14:43	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/27/23 14:43	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/27/23 14:43	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/27/23 14:43	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/27/23 14:43	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/27/23 14:43	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/27/23 14:43	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/27/23 14:43	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/27/23 14:43	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/27/23 14:43	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/27/23 14:43	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/27/23 14:43	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/27/23 14:43	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/27/23 14:43	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/27/23 14:43	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/27/23 14:43	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/27/23 14:43	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/27/23 14:43	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/27/23 14:43	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/27/23 14:43	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/27/23 14:43	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/27/23 14:43	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/27/23 14:43	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/27/23 14:43	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			05/27/23 14:43	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/27/23 14:43	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			05/27/23 14:43	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/27/23 14:43	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			05/27/23 14:43	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/27/23 14:43	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/27/23 14:43	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/27/23 14:43	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			05/27/23 14:43	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			05/27/23 14:43	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/27/23 14:43	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/27/23 14:43	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/27/23 14:43	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/27/23 14:43	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/27/23 14:43	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/27/23 14:43	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/27/23 14:43	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/27/23 14:43	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/27/23 14:43	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-28809-1

Date Collected: 05/25/23 10:30

Matrix: Water

Date Received: 05/25/23 14:42

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			05/27/23 14:43	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/27/23 14:43	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/27/23 14:43	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/27/23 14:43	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/27/23 14:43	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/27/23 14:43	1
Trichlorofluoromethane	<0.000638	U *	0.00100	0.000638 mg/L			05/27/23 14:43	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/27/23 14:43	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			05/27/23 14:43	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			05/27/23 14:43	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/27/23 14:43	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			05/27/23 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		74 - 124		05/27/23 14:43	1
Dibromofluoromethane (Surr)	96		75 - 131		05/27/23 14:43	1
1,2-Dichloroethane-d4 (Surr)	94		63 - 144		05/27/23 14:43	1
Toluene-d8 (Surr)	104		80 - 120		05/27/23 14:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.935	U	4.73	0.935 mg/L			05/31/23 17:22	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	<0.935	U	4.73	0.935 mg/L		05/30/23 11:58	05/31/23 14:59	1
Diesel Range Organics (Over C10-C28)	<0.935	U	4.73	0.935 mg/L		05/30/23 11:58	05/31/23 14:59	1
Oil Range Organics (Over C28-C36)	<0.902	U	4.73	0.902 mg/L		05/30/23 11:58	05/31/23 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135	05/30/23 11:58	05/31/23 14:59	1
o-Terphenyl	98		70 - 135	05/30/23 11:58	05/31/23 14:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.5		0.500	0.250 mg/L			05/27/23 01:54	1
Nitrate as N	0.0886	J	0.100	0.0391 mg/L			05/27/23 01:54	1
Fluoride	0.585		0.500	0.100 mg/L			05/27/23 01:54	1
Nitrite as N	0.882		0.100	0.0293 mg/L			05/27/23 01:54	1
Sulfate	31.7		0.500	0.200 mg/L			05/27/23 01:54	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	687		4.00	4.00 mg/L			05/29/23 15:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	687		4.00	4.00 mg/L			05/29/23 15:10	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			05/29/23 15:10	1
Carbon dioxide (SM 4500 CO2 D)	742			mg/L			05/30/23 08:28	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-28809-1

Date Collected: 05/25/23 10:30

Matrix: Water

Date Received: 05/25/23 14:42

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	137			mg/L			05/30/23 08:28	1
pH (SM 4500 H+ B)	7.0	HF		SU			06/01/23 14:57	1
Temperature (SM 4500 H+ B)	17.6	HF		Degrees C			06/01/23 14:57	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495 mg/L			05/30/23 08:51	1

Client Sample ID: MW-2

Lab Sample ID: 880-28809-2

Date Collected: 05/25/23 11:35

Matrix: Water

Date Received: 05/25/23 14:42

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0164		0.00100	0.000533 mg/L			05/27/23 15:03	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/27/23 15:03	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/27/23 15:03	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/27/23 15:03	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/27/23 15:03	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/27/23 15:03	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/27/23 15:03	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/27/23 15:03	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/27/23 15:03	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/27/23 15:03	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/27/23 15:03	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/27/23 15:03	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/27/23 15:03	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/27/23 15:03	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/27/23 15:03	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/27/23 15:03	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/27/23 15:03	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/27/23 15:03	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/27/23 15:03	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/27/23 15:03	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/27/23 15:03	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/27/23 15:03	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/27/23 15:03	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/27/23 15:03	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/27/23 15:03	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/27/23 15:03	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/27/23 15:03	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/27/23 15:03	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/27/23 15:03	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/27/23 15:03	1
Ethylbenzene	0.0185		0.00100	0.000411 mg/L			05/27/23 15:03	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/27/23 15:03	1
Isopropylbenzene	0.0114		0.00100	0.000613 mg/L			05/27/23 15:03	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/27/23 15:03	1
m,p-Xylenes	0.0581		0.0100	0.00124 mg/L			05/27/23 15:03	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/27/23 15:03	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/27/23 15:03	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/27/23 15:03	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-28809-2

Date Collected: 05/25/23 11:35

Matrix: Water

Date Received: 05/25/23 14:42

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	0.00337		0.00100	0.000498 mg/L			05/27/23 15:03	1
o-Xylene	0.0106		0.00100	0.000551 mg/L			05/27/23 15:03	1
p-Cymene (p-Isopropyltoluene)	0.00109		0.00100	0.000919 mg/L			05/27/23 15:03	1
sec-Butylbenzene	0.00148		0.00100	0.000468 mg/L			05/27/23 15:03	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/27/23 15:03	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/27/23 15:03	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/27/23 15:03	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/27/23 15:03	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/27/23 15:03	1
Toluene	0.00150		0.00100	0.000475 mg/L			05/27/23 15:03	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/27/23 15:03	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			05/27/23 15:03	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/27/23 15:03	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/27/23 15:03	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/27/23 15:03	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/27/23 15:03	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/27/23 15:03	1
Trichlorofluoromethane	<0.000638	U *	0.00100	0.000638 mg/L			05/27/23 15:03	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/27/23 15:03	1
1,2,4-Trimethylbenzene	0.0334		0.00100	0.000417 mg/L			05/27/23 15:03	1
1,3,5-Trimethylbenzene	0.00887		0.00100	0.000456 mg/L			05/27/23 15:03	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/27/23 15:03	1
Xylenes, Total	0.0687		0.0100	0.00124 mg/L			05/27/23 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		74 - 124		05/27/23 15:03	1
Dibromofluoromethane (Surr)	93		75 - 131		05/27/23 15:03	1
1,2-Dichloroethane-d4 (Surr)	93		63 - 144		05/27/23 15:03	1
Toluene-d8 (Surr)	103		80 - 120		05/27/23 15:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.09	J	4.79	0.947 mg/L			05/31/23 17:22	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	1.09	J	4.79	0.947 mg/L		05/30/23 11:58	05/31/23 15:20	1
Diesel Range Organics (Over C10-C28)	<0.947	U	4.79	0.947 mg/L		05/30/23 11:58	05/31/23 15:20	1
Oil Range Organics (Over C28-C36)	<0.914	U	4.79	0.914 mg/L		05/30/23 11:58	05/31/23 15:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 135			05/30/23 11:58	05/31/23 15:20	1
o-Terphenyl	94		70 - 135			05/30/23 11:58	05/31/23 15:20	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.3		0.500	0.250 mg/L			05/31/23 04:27	1
Nitrate as N	0.166	H	0.100	0.0391 mg/L			05/31/23 04:27	1
Fluoride	0.113	J	0.500	0.100 mg/L			05/31/23 04:27	1

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Client Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-28809-2

Date Collected: 05/25/23 11:35

Matrix: Water

Date Received: 05/25/23 14:42

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	1.47	H B	0.100	0.0293	mg/L			05/31/23 04:27	1
Sulfate	81.9		0.500	0.200	mg/L			05/31/23 04:27	1
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1330		4.00	4.00	mg/L			05/29/23 15:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1330		4.00	4.00	mg/L			05/29/23 15:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			05/29/23 15:27	1
Carbon dioxide (SM 4500 CO2 D)	2500				mg/L			05/30/23 08:28	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1330				mg/L			05/30/23 08:28	1
pH (SM 4500 H+ B)	6.3	HF			SU			06/01/23 14:59	1
Temperature (SM 4500 H+ B)	18.0	HF			Degrees C			06/01/23 14:59	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495	mg/L			05/30/23 08:51	1

Surrogate Summary

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

Job ID: 880-28809-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-120)
880-28809-1	MW-1	108	96	94	104
880-28809-2	MW-2	108	93	93	103
LCS 860-105169/3	Lab Control Sample	87	96	102	100
LCSD 860-105169/4	Lab Control Sample Dup	88	92	105	100
MB 860-105169/10	Method Blank	102	99	101	105

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
880-28809-1	MW-1	85	98
880-28809-2	MW-2	78	94
LCS 860-105376/2-A	Lab Control Sample	101	112
LCSD 860-105376/3-A	Lab Control Sample Dup	100	111
MB 860-105376/1-A	Method Blank	86	99

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-105169/10

Matrix: Water

Analysis Batch: 105169

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			05/27/23 13:21	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			05/27/23 13:21	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			05/27/23 13:21	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			05/27/23 13:21	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			05/27/23 13:21	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			05/27/23 13:21	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			05/27/23 13:21	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			05/27/23 13:21	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			05/27/23 13:21	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			05/27/23 13:21	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			05/27/23 13:21	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			05/27/23 13:21	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			05/27/23 13:21	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			05/27/23 13:21	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			05/27/23 13:21	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			05/27/23 13:21	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			05/27/23 13:21	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			05/27/23 13:21	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			05/27/23 13:21	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			05/27/23 13:21	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/27/23 13:21	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			05/27/23 13:21	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			05/27/23 13:21	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			05/27/23 13:21	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			05/27/23 13:21	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			05/27/23 13:21	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			05/27/23 13:21	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			05/27/23 13:21	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			05/27/23 13:21	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			05/27/23 13:21	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			05/27/23 13:21	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			05/27/23 13:21	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			05/27/23 13:21	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			05/27/23 13:21	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			05/27/23 13:21	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			05/27/23 13:21	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			05/27/23 13:21	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			05/27/23 13:21	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			05/27/23 13:21	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			05/27/23 13:21	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			05/27/23 13:21	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			05/27/23 13:21	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			05/27/23 13:21	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			05/27/23 13:21	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			05/27/23 13:21	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			05/27/23 13:21	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			05/27/23 13:21	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			05/27/23 13:21	1

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QC Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-105169/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 105169

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			05/27/23 13:21	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			05/27/23 13:21	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			05/27/23 13:21	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			05/27/23 13:21	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			05/27/23 13:21	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			05/27/23 13:21	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			05/27/23 13:21	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			05/27/23 13:21	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			05/27/23 13:21	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			05/27/23 13:21	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			05/27/23 13:21	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			05/27/23 13:21	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			05/27/23 13:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		05/27/23 13:21	1
Dibromofluoromethane (Surr)	99		75 - 131		05/27/23 13:21	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/27/23 13:21	1
Toluene-d8 (Surr)	105		80 - 120		05/27/23 13:21	1

Lab Sample ID: LCS 860-105169/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 105169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04823		mg/L		96	75 - 125
Bromobenzene	0.0500	0.04669		mg/L		93	75 - 125
Bromochloromethane	0.0500	0.04816		mg/L		96	60 - 140
Bromodichloromethane	0.0500	0.04748		mg/L		95	75 - 125
Bromoform	0.0500	0.04615		mg/L		92	70 - 130
Bromomethane	0.0500	0.04677		mg/L		94	60 - 140
2-Butanone	0.250	0.2023		mg/L		81	60 - 140
Carbon tetrachloride	0.0500	0.04802		mg/L		96	70 - 130
Chlorobenzene	0.0500	0.04656		mg/L		93	65 - 135
Chloroethane	0.0500	0.04807		mg/L		96	60 - 140
Chloroform	0.0500	0.04669		mg/L		93	70 - 121
Chloromethane	0.0500	0.03588		mg/L		72	60 - 140
2-Chlorotoluene	0.0500	0.03865		mg/L		77	73 - 125
4-Chlorotoluene	0.0500	0.04374		mg/L		87	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04297		mg/L		86	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04476		mg/L		90	74 - 125
Dibromochloromethane	0.0500	0.04384		mg/L		88	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.03671		mg/L		73	59 - 125
1,2-Dibromoethane	0.0500	0.04196		mg/L		84	73 - 125
1,2-Dichlorobenzene	0.0500	0.04805		mg/L		96	75 - 125
1,3-Dichlorobenzene	0.0500	0.04560		mg/L		91	75 - 125
1,4-Dichlorobenzene	0.0500	0.04695		mg/L		94	75 - 125
Dichlorodifluoromethane	0.0500	0.04527		mg/L		91	50 - 150

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QC Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-105169/3

Matrix: Water

Analysis Batch: 105169

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	0.04173		mg/L		83	70 - 130
1,2-Dichloroethane	0.0500	0.04754		mg/L		95	72 - 130
1,1-Dichloroethene	0.0500	0.04413		mg/L		88	50 - 150
1,2-Dichloropropane	0.0500	0.04683		mg/L		94	74 - 125
1,3-Dichloropropane	0.0500	0.04639		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.05325		mg/L		106	75 - 125
1,1-Dichloropropene	0.0500	0.04783		mg/L		96	75 - 125
Ethylbenzene	0.0500	0.04824		mg/L		96	75 - 125
Hexachlorobutadiene	0.0500	0.04718		mg/L		94	75 - 125
Isopropylbenzene	0.0500	0.04794		mg/L		96	75 - 125
Methylene Chloride	0.0500	0.03849		mg/L		77	71 - 125
m,p-Xylenes	0.0500	0.04955		mg/L		99	75 - 125
MTBE	0.0500	0.04322		mg/L		86	65 - 135
Naphthalene	0.0500	0.04063		mg/L		81	70 - 130
n-Butylbenzene	0.0500	0.04669		mg/L		93	75 - 125
N-Propylbenzene	0.0500	0.04314		mg/L		86	75 - 125
o-Xylene	0.0500	0.04586		mg/L		92	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04742		mg/L		95	75 - 125
sec-Butylbenzene	0.0500	0.04587		mg/L		92	75 - 125
Styrene	0.0500	0.04649		mg/L		93	75 - 125
tert-Butylbenzene	0.0500	0.04741		mg/L		95	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04611		mg/L		92	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.03771		mg/L		75	74 - 125
Tetrachloroethene	0.0500	0.05304		mg/L		106	71 - 125
Toluene	0.0500	0.04967		mg/L		99	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04304		mg/L		86	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04817		mg/L		96	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04288		mg/L		86	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04583		mg/L		92	75 - 135
1,1,1-Trichloroethane	0.0500	0.04867		mg/L		97	70 - 130
1,1,2-Trichloroethane	0.0500	0.04629		mg/L		93	70 - 130
Trichloroethene	0.0500	0.04616		mg/L		92	75 - 135
Trichlorofluoromethane	0.0500	0.07147	*+	mg/L		143	60 - 140
1,2,3-Trichloropropane	0.0500	0.03961		mg/L		79	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04460		mg/L		89	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04408		mg/L		88	60 - 140
Vinyl chloride	0.0500	0.03660		mg/L		73	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		74 - 124
Dibromofluoromethane (Surr)	96		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	100		80 - 120

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QC Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-105169/4

Matrix: Water

Analysis Batch: 105169

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	0.05176		mg/L		104	75 - 125	7	25
Bromobenzene	0.0500	0.04866		mg/L		97	75 - 125	4	25
Bromochloromethane	0.0500	0.05160		mg/L		103	60 - 140	7	25
Bromodichloromethane	0.0500	0.05162		mg/L		103	75 - 125	8	25
Bromoform	0.0500	0.05097		mg/L		102	70 - 130	10	25
Bromomethane	0.0500	0.05125		mg/L		103	60 - 140	9	25
2-Butanone	0.250	0.2224		mg/L		89	60 - 140	9	25
Carbon tetrachloride	0.0500	0.05517		mg/L		110	70 - 130	14	25
Chlorobenzene	0.0500	0.05002		mg/L		100	65 - 135	7	25
Chloroethane	0.0500	0.05089		mg/L		102	60 - 140	6	25
Chloroform	0.0500	0.04882		mg/L		98	70 - 121	4	25
Chloromethane	0.0500	0.03864		mg/L		77	60 - 140	7	25
2-Chlorotoluene	0.0500	0.04215		mg/L		84	73 - 125	9	25
4-Chlorotoluene	0.0500	0.04896		mg/L		98	74 - 125	11	25
cis-1,2-Dichloroethene	0.0500	0.05111		mg/L		102	75 - 125	17	25
cis-1,3-Dichloropropene	0.0500	0.04781		mg/L		96	74 - 125	7	25
Dibromochloromethane	0.0500	0.05046		mg/L		101	73 - 125	14	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04058		mg/L		81	59 - 125	10	25
1,2-Dibromoethane	0.0500	0.04547		mg/L		91	73 - 125	8	25
1,2-Dichlorobenzene	0.0500	0.05246		mg/L		105	75 - 125	9	25
1,3-Dichlorobenzene	0.0500	0.04951		mg/L		99	75 - 125	8	25
1,4-Dichlorobenzene	0.0500	0.05006		mg/L		100	75 - 125	6	25
Dichlorodifluoromethane	0.0500	0.05843		mg/L		117	50 - 150	25	25
1,1-Dichloroethane	0.0500	0.04837		mg/L		97	70 - 130	15	25
1,2-Dichloroethane	0.0500	0.05193		mg/L		104	72 - 130	9	25
1,1-Dichloroethene	0.0500	0.04991		mg/L		100	50 - 150	12	25
1,2-Dichloropropane	0.0500	0.04782		mg/L		96	74 - 125	2	25
1,3-Dichloropropane	0.0500	0.04762		mg/L		95	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05997		mg/L		120	75 - 125	12	25
1,1-Dichloropropene	0.0500	0.05368		mg/L		107	75 - 125	12	25
Ethylbenzene	0.0500	0.05257		mg/L		105	75 - 125	9	25
Hexachlorobutadiene	0.0500	0.05505		mg/L		110	75 - 125	15	25
Isopropylbenzene	0.0500	0.05140		mg/L		103	75 - 125	7	25
Methylene Chloride	0.0500	0.04396		mg/L		88	71 - 125	13	25
m,p-Xylenes	0.0500	0.05261		mg/L		105	75 - 125	6	25
MTBE	0.0500	0.05102		mg/L		102	65 - 135	17	25
Naphthalene	0.0500	0.04517		mg/L		90	70 - 130	11	25
n-Butylbenzene	0.0500	0.05178		mg/L		104	75 - 125	10	25
N-Propylbenzene	0.0500	0.04863		mg/L		97	75 - 125	12	25
o-Xylene	0.0500	0.05088		mg/L		102	75 - 125	10	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05411		mg/L		108	75 - 125	13	25
sec-Butylbenzene	0.0500	0.05104		mg/L		102	75 - 125	11	25
Styrene	0.0500	0.05081		mg/L		102	75 - 125	9	25
tert-Butylbenzene	0.0500	0.05210		mg/L		104	75 - 125	9	25
1,1,1,2-Tetrachloroethane	0.0500	0.05079		mg/L		102	72 - 125	10	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.04115		mg/L		82	74 - 125	9	25
Tetrachloroethene	0.0500	0.05652		mg/L		113	71 - 125	6	25
Toluene	0.0500	0.05264		mg/L		105	70 - 130	6	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-105169/4

Matrix: Water

Analysis Batch: 105169

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	0.05012		mg/L		100	75 - 125	15	25
trans-1,3-Dichloropropene	0.0500	0.05114		mg/L		102	66 - 125	6	25
1,2,3-Trichlorobenzene	0.0500	0.04687		mg/L		94	75 - 137	9	25
1,2,4-Trichlorobenzene	0.0500	0.04999		mg/L		100	75 - 135	9	25
1,1,1-Trichloroethane	0.0500	0.05345		mg/L		107	70 - 130	9	25
1,1,2-Trichloroethane	0.0500	0.04828		mg/L		97	70 - 130	4	25
Trichloroethene	0.0500	0.05078		mg/L		102	75 - 135	10	25
Trichlorofluoromethane	0.0500	0.07649	*+	mg/L		153	60 - 140	7	25
1,2,3-Trichloropropane	0.0500	0.03915		mg/L		78	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.04974		mg/L		99	75 - 125	11	25
1,3,5-Trimethylbenzene	0.0500	0.04791		mg/L		96	60 - 140	8	25
Vinyl chloride	0.0500	0.03929		mg/L		79	60 - 140	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		74 - 124
Dibromofluoromethane (Surr)	92		75 - 131
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
Toluene-d8 (Surr)	100		80 - 120

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

Lab Sample ID: MB 860-105376/1-A

Matrix: Water

Analysis Batch: 105569

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105376

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		05/30/23 11:58	05/31/23 14:38	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		05/30/23 11:58	05/31/23 14:38	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		05/30/23 11:58	05/31/23 14:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 135	05/30/23 11:58	05/31/23 14:38	1
o-Terphenyl	99		70 - 135	05/30/23 11:58	05/31/23 14:38	1

Lab Sample ID: LCS 860-105376/2-A

Matrix: Water

Analysis Batch: 105362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.6	114.2		mg/L		115	70 - 135
Diesel Range Organics (Over C10-C28)	99.8	101.9		mg/L		102	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	101		70 - 135
o-Terphenyl	112		70 - 135

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-105376/3-A

Matrix: Water

Analysis Batch: 105362

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.6	116.1		mg/L		117	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	99.8	103.8		mg/L		104	70 - 135	2	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	100		70 - 135						
o-Terphenyl	111		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-105111/3

Matrix: Water

Analysis Batch: 105111

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			05/26/23 15:37	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/26/23 15:37	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/26/23 15:37	1

Lab Sample ID: MB 860-105111/47

Matrix: Water

Analysis Batch: 105111

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			05/27/23 00:49	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/27/23 00:49	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/27/23 00:49	1

Lab Sample ID: LCS 860-105111/48

Matrix: Water

Analysis Batch: 105111

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	10.03		mg/L		100	90 - 110
Fluoride	10.0	10.58		mg/L		106	90 - 110
Sulfate	10.0	10.13		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-105111/49

Matrix: Water

Analysis Batch: 105111

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	10.01		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.59		mg/L		106	90 - 110	0	20
Sulfate	10.0	10.12		mg/L		101	90 - 110	0	20

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QC Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-105111/7

Matrix: Water

Analysis Batch: 105111

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	0.4284	J	mg/L		86	50 - 150
Fluoride	0.500	0.4186	J	mg/L		84	50 - 150
Sulfate	0.500	0.4469	J	mg/L		89	50 - 150

Lab Sample ID: MB 860-105112/3

Matrix: Water

Analysis Batch: 105112

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			05/26/23 15:37	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/26/23 15:37	1

Lab Sample ID: MB 860-105112/47

Matrix: Water

Analysis Batch: 105112

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			05/27/23 00:49	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/27/23 00:49	1

Lab Sample ID: LCS 860-105112/48

Matrix: Water

Analysis Batch: 105112

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	10.12		mg/L		101	80 - 120
Nitrite as N	10.0	10.31		mg/L		103	80 - 120

Lab Sample ID: LCSD 860-105112/49

Matrix: Water

Analysis Batch: 105112

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	10.11		mg/L		101	80 - 120	0	20
Nitrite as N	10.0	10.32		mg/L		103	80 - 120	0	20

Lab Sample ID: LLCS 860-105112/6

Matrix: Water

Analysis Batch: 105112

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	0.09679	J	mg/L		97	50 - 150
Nitrite as N	0.100	0.1019		mg/L		102	50 - 150

Lab Sample ID: MB 860-105391/3

Matrix: Water

Analysis Batch: 105391

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			05/31/23 02:26	1

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QC Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-105391/3

Matrix: Water

Analysis Batch: 105391

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			05/31/23 02:26	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/31/23 02:26	1

Lab Sample ID: LCS 860-105391/4

Matrix: Water

Analysis Batch: 105391

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	10.64		mg/L		106	90 - 110
Sulfate	10.0	10.22		mg/L		102	90 - 110

Lab Sample ID: LCSD 860-105391/5

Matrix: Water

Analysis Batch: 105391

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	10.12		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.68		mg/L		107	90 - 110	0	20
Sulfate	10.0	10.22		mg/L		102	90 - 110	0	20

Lab Sample ID: LLCS 860-105391/7

Matrix: Water

Analysis Batch: 105391

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	0.4625	J	mg/L		92	50 - 150
Fluoride	0.500	0.4740	J	mg/L		95	50 - 150
Sulfate	0.500	0.4574	J	mg/L		91	50 - 150

Lab Sample ID: MB 860-105392/3

Matrix: Water

Analysis Batch: 105392

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			05/31/23 02:26	1
Nitrite as N	0.03381	J	0.100	0.0293 mg/L			05/31/23 02:26	1

Lab Sample ID: LCS 860-105392/4

Matrix: Water

Analysis Batch: 105392

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	10.21		mg/L		102	80 - 120
Nitrite as N	10.0	10.44		mg/L		104	80 - 120

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QC Sample Results

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-105392/5

Matrix: Water

Analysis Batch: 105392

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	RPD		
Nitrate as N	10.0	10.19		mg/L		102	80 - 120	0		20
Nitrite as N	10.0	10.44		mg/L		104	80 - 120	0		20

Lab Sample ID: LLCS 860-105392/6

Matrix: Water

Analysis Batch: 105392

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Nitrate as N	0.100	0.1067		mg/L		107	50 - 150			
Nitrite as N	0.100	0.1262		mg/L		126	50 - 150			

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-105322/3

Matrix: Water

Analysis Batch: 105322

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed		Dil Fac
Alkalinity	<4.00	U	4.00	mg/L			05/29/23 11:32		1
Bicarbonate Alkalinity as CaCO ₃	<4.00	U	4.00	mg/L			05/29/23 11:32		1
Carbonate Alkalinity as CaCO ₃	<4.00	U	4.00	mg/L			05/29/23 11:32		1

Lab Sample ID: LCS 860-105322/4

Matrix: Water

Analysis Batch: 105322

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Alkalinity	250	255.5		mg/L		102	85 - 115			

Lab Sample ID: LCSD 860-105322/5

Matrix: Water

Analysis Batch: 105322

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	RPD		
Alkalinity	250	255.8		mg/L		102	85 - 115	0		20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-105411/1

Matrix: Water

Analysis Batch: 105411

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed		Dil Fac
Sulfide	<0.495	U	5.00	mg/L			05/30/23 08:51		1

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QC Sample Results

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

Job ID: 880-28809-1

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

Lab Sample ID: LCS 860-105411/2				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 105411											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			50.0	43.80		mg/L		88	80 - 120		

Lab Sample ID: LCSD 860-105411/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 105411											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			50.0	43.80		mg/L		88	80 - 120	0	20

Lab Sample ID: 880-28809-1 MS				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 105411											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.495	U	50.0	41.60		mg/L		83	80 - 120		

Lab Sample ID: 880-28809-1 MSD				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 105411											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	50.0	41.80		mg/L		84	80 - 120	0	20

QC Association Summary

Client: Ensolum

Job ID: 880-28809-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 105169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28809-1	MW-1	Total/NA	Water	8260C	
880-28809-2	MW-2	Total/NA	Water	8260C	
MB 860-105169/10	Method Blank	Total/NA	Water	8260C	
LCS 860-105169/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-105169/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28809-1	MW-1	Total/NA	Water	8015 NM	
880-28809-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 105362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-105376/2-A	Lab Control Sample	Total/NA	Water	8015B NM	105376
LCSD 860-105376/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	105376

Prep Batch: 105376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28809-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-28809-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-105376/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-105376/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-105376/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 105569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28809-1	MW-1	Total/NA	Water	8015B NM	105376
880-28809-2	MW-2	Total/NA	Water	8015B NM	105376
MB 860-105376/1-A	Method Blank	Total/NA	Water	8015B NM	105376

HPLC/IC

Analysis Batch: 105111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28809-1	MW-1	Total/NA	Water	300.0	
MB 860-105111/3	Method Blank	Total/NA	Water	300.0	
MB 860-105111/47	Method Blank	Total/NA	Water	300.0	
LCS 860-105111/48	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105111/49	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105111/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 105112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28809-1	MW-1	Total/NA	Water	300.0	
MB 860-105112/3	Method Blank	Total/NA	Water	300.0	
MB 860-105112/47	Method Blank	Total/NA	Water	300.0	
LCS 860-105112/48	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105112/49	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105112/6	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-28809-1

HPLC/IC

Analysis Batch: 105391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28809-2	MW-2	Total/NA	Water	300.0	
MB 860-105391/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105391/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105391/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105391/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 105392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28809-2	MW-2	Total/NA	Water	300.0	
MB 860-105392/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105392/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105392/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105392/6	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 105292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28809-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-28809-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 105322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28809-1	MW-1	Total/NA	Water	SM 2320B	
880-28809-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-105322/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-105322/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-105322/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 105411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28809-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-28809-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-105411/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-105411/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-105411/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-28809-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-28809-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 105857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28809-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-28809-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-28809-1

Client Sample ID: MW-1

Date Collected: 05/25/23 10:30

Date Received: 05/25/23 14:42

Lab Sample ID: 880-28809-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	105169	NA	EET HOU	05/27/23 14:43
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	05/31/23 17:22
Total/NA	Prep	8015NM Aq Prep			105376	MCA	EET HOU	05/30/23 11:58
Total/NA	Analysis	8015B NM		1	105569	MCA	EET HOU	05/31/23 14:59
Total/NA	Analysis	300.0		1	105111	WP	EET HOU	05/27/23 01:54
Total/NA	Analysis	300.0		1	105112	WP	EET HOU	05/27/23 01:54
Total/NA	Analysis	SM 2320B		1	105322	TL	EET HOU	05/29/23 15:10
Total/NA	Analysis	SM 4500 CO2 D		1	105292	SC	EET HOU	05/30/23 08:28
Total/NA	Analysis	SM 4500 H+ B		1	105857	TL	EET HOU	06/01/23 14:57
Total/NA	Analysis	SM 4500 S2 F		1	105411	SCI	EET HOU	05/30/23 08:51

Client Sample ID: MW-2

Date Collected: 05/25/23 11:35

Date Received: 05/25/23 14:42

Lab Sample ID: 880-28809-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	105169	NA	EET HOU	05/27/23 15:03
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	05/31/23 17:22
Total/NA	Prep	8015NM Aq Prep			105376	MCA	EET HOU	05/30/23 11:58
Total/NA	Analysis	8015B NM		1	105569	MCA	EET HOU	05/31/23 15:20
Total/NA	Analysis	300.0		1	105391	WP	EET HOU	05/31/23 04:27
Total/NA	Analysis	300.0		1	105392	WP	EET HOU	05/31/23 04:27
Total/NA	Analysis	SM 2320B		1	105322	TL	EET HOU	05/29/23 15:27
Total/NA	Analysis	SM 4500 CO2 D		1	105292	SC	EET HOU	05/30/23 08:28
Total/NA	Analysis	SM 4500 H+ B		1	105857	TL	EET HOU	06/01/23 14:59
Total/NA	Analysis	SM 4500 S2 F		1	105411	SCI	EET HOU	05/30/23 08:51

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-28809-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	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: 880-28809-1

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 F	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	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: South Hobbs - 03B1417002

Job ID: 880-28809-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28809-1	MW-1	Water	05/25/23 10:30	05/25/23 14:42
880-28809-2	MW-2	Water	05/25/23 11:35	05/25/23 14:42

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock TX (806)794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa FL (813-620-2000)

Work Order No: 28809

www.xenco.com Page 1 of 1

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

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

ANALYSIS REQUEST										Work Order Notes								
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):	12.7/12.4		Thermometer ID															
Received Intact:	Yes ☒ No ☐		Correction Factor:	-1.50														
Cooler Custody Seals:	Yes ☐ No ☒	Total Containers																
Sample Custody Seals:	Yes ☐ No ☒																	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth														
MW-1	GW	5-25-23	1030		Dissolved Carbon Dioxide 4500 CO2 c	X	Dissolved Sulfide SW-846 #376.2	X	VOC SW-846 #8260	X	TPH EPA Method #8015	X	Chloride EPA Method #846 300	X	pH EPA SW-846 Method 150.1	X	TAT starts the day received by the lab if received by 4 30pm	
MW-2	GW	5-25-23	1135															
 880-28809 Chain of Custody																		
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
		5/25/23			
		1142			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-28809-1

Login Number: 28809

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	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-28809-1

Login Number: 28809

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 05/26/23 05:23 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 6/7/2023 7:48:45 AM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-28915-1

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
6/7/2023 7:48:45 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: 880-28915-1

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Definitions/Glossary

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

Job ID: 880-28915-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Midland

Case Narrative

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

Job ID: 880-28915-1

Job ID: 880-28915-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-28915-1

Receipt

The samples were received on 5/30/2023 3:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-105688 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-105998 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 860-105998 was outside control limits. Sample matrix interference is suspected.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-105999 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFMS: Reanalysis of the following samples were performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis : MW-1 (880-28915-1) and MW-2 (880-28915-2).

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-28915-1

Date Collected: 05/30/23 12:20

Matrix: Water

Date Received: 05/30/23 15:54

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			06/01/23 09:45	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			06/01/23 09:45	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			06/01/23 09:45	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			06/01/23 09:45	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			06/01/23 09:45	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			06/01/23 09:45	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			06/01/23 09:45	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			06/01/23 09:45	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			06/01/23 09:45	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			06/01/23 09:45	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			06/01/23 09:45	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			06/01/23 09:45	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			06/01/23 09:45	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			06/01/23 09:45	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			06/01/23 09:45	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			06/01/23 09:45	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			06/01/23 09:45	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			06/01/23 09:45	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			06/01/23 09:45	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			06/01/23 09:45	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			06/01/23 09:45	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			06/01/23 09:45	1
Dichlorodifluoromethane	<0.000919	U F1	0.00100	0.000919 mg/L			06/01/23 09:45	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			06/01/23 09:45	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			06/01/23 09:45	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			06/01/23 09:45	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			06/01/23 09:45	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			06/01/23 09:45	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			06/01/23 09:45	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			06/01/23 09:45	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			06/01/23 09:45	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			06/01/23 09:45	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			06/01/23 09:45	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			06/01/23 09:45	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			06/01/23 09:45	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			06/01/23 09:45	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			06/01/23 09:45	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			06/01/23 09:45	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			06/01/23 09:45	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			06/01/23 09:45	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			06/01/23 09:45	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			06/01/23 09:45	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			06/01/23 09:45	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			06/01/23 09:45	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			06/01/23 09:45	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			06/01/23 09:45	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			06/01/23 09:45	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			06/01/23 09:45	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			06/01/23 09:45	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-28915-1

Date Collected: 05/30/23 12:20

Matrix: Water

Date Received: 05/30/23 15:54

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			06/01/23 09:45	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			06/01/23 09:45	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			06/01/23 09:45	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			06/01/23 09:45	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			06/01/23 09:45	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			06/01/23 09:45	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			06/01/23 09:45	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			06/01/23 09:45	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			06/01/23 09:45	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			06/01/23 09:45	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			06/01/23 09:45	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			06/01/23 09:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		74 - 124		06/01/23 09:45	1
Dibromofluoromethane (Surr)	99		75 - 131		06/01/23 09:45	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		06/01/23 09:45	1
Toluene-d8 (Surr)	104		80 - 120		06/01/23 09:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.944	U	4.78	0.944 mg/L			06/06/23 10:51	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	<0.944	U	4.78	0.944 mg/L		06/05/23 10:55	06/05/23 23:24	1
Diesel Range Organics (Over C10-C28)	<0.944	U	4.78	0.944 mg/L		06/05/23 10:55	06/05/23 23:24	1
Oil Range Organics (Over C28-C36)	<0.911	U	4.78	0.911 mg/L		06/05/23 10:55	06/05/23 23:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 135			06/05/23 10:55	06/05/23 23:24	1
o-Terphenyl	113		70 - 135			06/05/23 10:55	06/05/23 23:24	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.8		0.500	0.250 mg/L			05/31/23 23:18	1
Nitrate as N	0.432		0.100	0.0391 mg/L			05/31/23 23:18	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/31/23 23:18	1
Nitrite as N	1.32	H	0.100	0.0293 mg/L			06/03/23 00:50	1
Sulfate	57.2		0.500	0.200 mg/L			05/31/23 23:18	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	692		4.00	4.00 mg/L			06/01/23 13:54	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	692		4.00	4.00 mg/L			06/01/23 13:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			06/01/23 13:54	1
Carbon dioxide (SM 4500 CO2 D)	1300			mg/L			06/07/23 08:33	1

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Client Sample Results

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

Job ID: 880-28915-1

Client Sample ID: MW-1

Lab Sample ID: 880-28915-1

Date Collected: 05/30/23 12:20

Matrix: Water

Date Received: 05/30/23 15:54

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	693			mg/L			06/07/23 08:33	1
pH (SM 4500 H+ B)	7.0	HF		SU			06/01/23 15:00	1
Temperature (SM 4500 H+ B)	18.4	HF		Degrees C			06/01/23 15:00	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495 mg/L			06/01/23 13:29	1

Client Sample ID: MW-2

Lab Sample ID: 880-28915-2

Date Collected: 05/30/23 11:25

Matrix: Water

Date Received: 05/30/23 15:54

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0122		0.00100	0.000533 mg/L			06/01/23 10:05	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			06/01/23 10:05	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			06/01/23 10:05	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			06/01/23 10:05	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			06/01/23 10:05	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			06/01/23 10:05	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			06/01/23 10:05	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			06/01/23 10:05	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			06/01/23 10:05	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			06/01/23 10:05	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			06/01/23 10:05	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			06/01/23 10:05	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			06/01/23 10:05	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			06/01/23 10:05	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			06/01/23 10:05	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			06/01/23 10:05	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			06/01/23 10:05	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			06/01/23 10:05	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			06/01/23 10:05	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			06/01/23 10:05	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			06/01/23 10:05	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			06/01/23 10:05	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			06/01/23 10:05	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			06/01/23 10:05	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			06/01/23 10:05	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			06/01/23 10:05	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			06/01/23 10:05	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			06/01/23 10:05	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			06/01/23 10:05	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			06/01/23 10:05	1
Ethylbenzene	0.0119		0.00100	0.000411 mg/L			06/01/23 10:05	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			06/01/23 10:05	1
Isopropylbenzene	0.00455		0.00100	0.000613 mg/L			06/01/23 10:05	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			06/01/23 10:05	1
m,p-Xylenes	0.0249		0.0100	0.00124 mg/L			06/01/23 10:05	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			06/01/23 10:05	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			06/01/23 10:05	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			06/01/23 10:05	1

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Client Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-28915-2

Date Collected: 05/30/23 11:25

Matrix: Water

Date Received: 05/30/23 15:54

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	0.00138		0.00100	0.000498 mg/L			06/01/23 10:05	1
o-Xylene	0.00741		0.00100	0.000551 mg/L			06/01/23 10:05	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			06/01/23 10:05	1
sec-Butylbenzene	0.000558	J	0.00100	0.000468 mg/L			06/01/23 10:05	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			06/01/23 10:05	1
tert-Butylbenzene	0.000690	J	0.00100	0.000442 mg/L			06/01/23 10:05	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			06/01/23 10:05	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			06/01/23 10:05	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			06/01/23 10:05	1
Toluene	0.00197		0.00100	0.000475 mg/L			06/01/23 10:05	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			06/01/23 10:05	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			06/01/23 10:05	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			06/01/23 10:05	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			06/01/23 10:05	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			06/01/23 10:05	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			06/01/23 10:05	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			06/01/23 10:05	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			06/01/23 10:05	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			06/01/23 10:05	1
1,2,4-Trimethylbenzene	0.0103		0.00100	0.000417 mg/L			06/01/23 10:05	1
1,3,5-Trimethylbenzene	0.00300		0.00100	0.000456 mg/L			06/01/23 10:05	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			06/01/23 10:05	1
Xylenes, Total	0.0323		0.0100	0.00124 mg/L			06/01/23 10:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		06/01/23 10:05	1
Dibromofluoromethane (Surr)	96		75 - 131		06/01/23 10:05	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		06/01/23 10:05	1
Toluene-d8 (Surr)	103		80 - 120		06/01/23 10:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.935	U	4.73	0.935 mg/L			06/06/23 10:51	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	<0.935	U	4.73	0.935 mg/L		06/05/23 10:55	06/05/23 23:44	1
Diesel Range Organics (Over C10-C28)	<0.935	U	4.73	0.935 mg/L		06/05/23 10:55	06/05/23 23:44	1
Oil Range Organics (Over C28-C36)	<0.902	U	4.73	0.902 mg/L		06/05/23 10:55	06/05/23 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 135	06/05/23 10:55	06/05/23 23:44	1
o-Terphenyl	104		70 - 135	06/05/23 10:55	06/05/23 23:44	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.2		0.500	0.250 mg/L			06/01/23 00:11	1
Nitrate as N	0.551		0.100	0.0391 mg/L			06/01/23 00:11	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/01/23 00:11	1

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Client Sample Results

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

Job ID: 880-28915-1

Client Sample ID: MW-2
Date Collected: 05/30/23 11:25
Date Received: 05/30/23 15:54

Lab Sample ID: 880-28915-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.721	H	0.100	0.0293	mg/L			06/03/23 00:13	1
Sulfate	92.1		0.500	0.200	mg/L			06/01/23 00:11	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1340		4.00	4.00	mg/L			06/01/23 14:22	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1340		4.00	4.00	mg/L			06/01/23 14:22	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			06/01/23 14:22	1
Carbon dioxide (SM 4500 CO2 D)	1440				mg/L			06/07/23 08:33	1
Carbon Dioxide, Free (SM 4500 CO2 D)	267				mg/L			06/07/23 08:33	1
pH (SM 4500 H+ B)	6.3	HF			SU			06/01/23 15:02	1
Temperature (SM 4500 H+ B)	18.3	HF			Degrees C			06/01/23 15:02	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495	mg/L			06/01/23 13:29	1

Surrogate Summary

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

Job ID: 880-28915-1

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)
880-28915-1	MW-1	105	99	107	104
880-28915-1 MS	MW-1	103	103	104	103
880-28915-2	MW-2	100	96	103	103
LCS 860-105688/3	Lab Control Sample	102	101	104	103
LCSD 860-105688/4	Lab Control Sample Dup	103	104	102	103
MB 860-105688/9	Method Blank	108	97	104	108
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)
880-28915-1	MW-1	103	113
880-28915-2	MW-2	94	104
LCS 860-106178/2-A	Lab Control Sample	117	119
LCSD 860-106178/3-A	Lab Control Sample Dup	119	121
MB 860-106178/1-A	Method Blank	103	115
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-105688/9

Matrix: Water

Analysis Batch: 105688

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			06/01/23 09:24	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			06/01/23 09:24	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			06/01/23 09:24	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			06/01/23 09:24	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			06/01/23 09:24	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			06/01/23 09:24	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			06/01/23 09:24	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			06/01/23 09:24	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			06/01/23 09:24	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			06/01/23 09:24	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			06/01/23 09:24	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			06/01/23 09:24	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			06/01/23 09:24	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			06/01/23 09:24	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			06/01/23 09:24	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			06/01/23 09:24	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			06/01/23 09:24	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			06/01/23 09:24	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			06/01/23 09:24	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			06/01/23 09:24	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			06/01/23 09:24	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			06/01/23 09:24	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			06/01/23 09:24	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			06/01/23 09:24	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			06/01/23 09:24	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			06/01/23 09:24	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			06/01/23 09:24	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			06/01/23 09:24	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			06/01/23 09:24	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			06/01/23 09:24	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			06/01/23 09:24	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			06/01/23 09:24	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			06/01/23 09:24	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			06/01/23 09:24	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			06/01/23 09:24	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			06/01/23 09:24	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			06/01/23 09:24	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			06/01/23 09:24	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			06/01/23 09:24	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			06/01/23 09:24	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			06/01/23 09:24	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			06/01/23 09:24	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			06/01/23 09:24	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			06/01/23 09:24	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			06/01/23 09:24	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			06/01/23 09:24	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			06/01/23 09:24	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			06/01/23 09:24	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-105688/9

Matrix: Water

Analysis Batch: 105688

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			06/01/23 09:24	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			06/01/23 09:24	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			06/01/23 09:24	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			06/01/23 09:24	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			06/01/23 09:24	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			06/01/23 09:24	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			06/01/23 09:24	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			06/01/23 09:24	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			06/01/23 09:24	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			06/01/23 09:24	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			06/01/23 09:24	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			06/01/23 09:24	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			06/01/23 09:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		74 - 124		06/01/23 09:24	1
Dibromofluoromethane (Surr)	97		75 - 131		06/01/23 09:24	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		06/01/23 09:24	1
Toluene-d8 (Surr)	108		80 - 120		06/01/23 09:24	1

Lab Sample ID: LCS 860-105688/3

Matrix: Water

Analysis Batch: 105688

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	0.05476		mg/L		110	75 - 125
Bromobenzene	0.0500	0.05271		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05354		mg/L		107	60 - 140
Bromodichloromethane	0.0500	0.05562		mg/L		111	75 - 125
Bromoform	0.0500	0.05090		mg/L		102	70 - 130
Bromomethane	0.0500	0.04750		mg/L		95	60 - 140
2-Butanone	0.250	0.2584		mg/L		103	60 - 140
Carbon tetrachloride	0.0500	0.05413		mg/L		108	70 - 130
Chlorobenzene	0.0500	0.05301		mg/L		106	65 - 135
Chloroethane	0.0500	0.05524		mg/L		110	60 - 140
Chloroform	0.0500	0.05544		mg/L		111	70 - 121
Chloromethane	0.0500	0.05035		mg/L		101	60 - 140
2-Chlorotoluene	0.0500	0.05594		mg/L		112	73 - 125
4-Chlorotoluene	0.0500	0.05632		mg/L		113	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05658		mg/L		113	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05751		mg/L		115	74 - 125
Dibromochloromethane	0.0500	0.05258		mg/L		105	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05382		mg/L		108	59 - 125
1,2-Dibromoethane	0.0500	0.05241		mg/L		105	73 - 125
1,2-Dichlorobenzene	0.0500	0.05368		mg/L		107	75 - 125
1,3-Dichlorobenzene	0.0500	0.05397		mg/L		108	75 - 125
1,4-Dichlorobenzene	0.0500	0.05336		mg/L		107	75 - 125
Dichlorodifluoromethane	0.0500	0.04439		mg/L		89	50 - 150

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QC Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-105688/3

Matrix: Water

Analysis Batch: 105688

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	0.05906		mg/L		118	70 - 130
1,2-Dichloroethane	0.0500	0.05525		mg/L		110	72 - 130
1,1-Dichloroethene	0.0500	0.05660		mg/L		113	50 - 150
1,2-Dichloropropane	0.0500	0.05691		mg/L		114	74 - 125
1,3-Dichloropropane	0.0500	0.05461		mg/L		109	75 - 125
2,2-Dichloropropane	0.0500	0.05628		mg/L		113	75 - 125
1,1-Dichloropropene	0.0500	0.05596		mg/L		112	75 - 125
Ethylbenzene	0.0500	0.05484		mg/L		110	75 - 125
Hexachlorobutadiene	0.0500	0.05376		mg/L		108	75 - 125
Isopropylbenzene	0.0500	0.05440		mg/L		109	75 - 125
Methylene Chloride	0.0500	0.05235		mg/L		105	71 - 125
m,p-Xylenes	0.0500	0.05516		mg/L		110	75 - 125
MTBE	0.0500	0.05660		mg/L		113	65 - 135
Naphthalene	0.0500	0.05873		mg/L		117	70 - 130
n-Butylbenzene	0.0500	0.06016		mg/L		120	75 - 125
N-Propylbenzene	0.0500	0.05779		mg/L		116	75 - 125
o-Xylene	0.0500	0.05381		mg/L		108	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05575		mg/L		111	75 - 125
sec-Butylbenzene	0.0500	0.05676		mg/L		114	75 - 125
Styrene	0.0500	0.05484		mg/L		110	75 - 125
tert-Butylbenzene	0.0500	0.05507		mg/L		110	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05178		mg/L		104	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05712		mg/L		114	74 - 125
Tetrachloroethene	0.0500	0.05054		mg/L		101	71 - 125
Toluene	0.0500	0.05267		mg/L		105	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05514		mg/L		110	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05628		mg/L		113	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05631		mg/L		113	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05499		mg/L		110	75 - 135
1,1,1-Trichloroethane	0.0500	0.05430		mg/L		109	70 - 130
1,1,2-Trichloroethane	0.0500	0.05430		mg/L		109	70 - 130
Trichloroethene	0.0500	0.05216		mg/L		104	75 - 135
Trichlorofluoromethane	0.0500	0.05626		mg/L		113	60 - 140
1,2,3-Trichloropropane	0.0500	0.05649		mg/L		113	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05538		mg/L		111	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05505		mg/L		110	60 - 140
Vinyl chloride	0.0500	0.05336		mg/L		107	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
Toluene-d8 (Surr)	103		80 - 120

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QC Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-105688/4

Matrix: Water

Analysis Batch: 105688

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	0.05307		mg/L		106	75 - 125	3	25
Bromobenzene	0.0500	0.05288		mg/L		106	75 - 125	0	25
Bromochloromethane	0.0500	0.05191		mg/L		104	60 - 140	3	25
Bromodichloromethane	0.0500	0.05351		mg/L		107	75 - 125	4	25
Bromoform	0.0500	0.04989		mg/L		100	70 - 130	2	25
Bromomethane	0.0500	0.04618		mg/L		92	60 - 140	3	25
2-Butanone	0.250	0.2594		mg/L		104	60 - 140	0	25
Carbon tetrachloride	0.0500	0.05503		mg/L		110	70 - 130	2	25
Chlorobenzene	0.0500	0.05156		mg/L		103	65 - 135	3	25
Chloroethane	0.0500	0.05539		mg/L		111	60 - 140	0	25
Chloroform	0.0500	0.05479		mg/L		110	70 - 121	1	25
Chloromethane	0.0500	0.04957		mg/L		99	60 - 140	2	25
2-Chlorotoluene	0.0500	0.05658		mg/L		113	73 - 125	1	25
4-Chlorotoluene	0.0500	0.05670		mg/L		113	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.05558		mg/L		111	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05498		mg/L		110	74 - 125	4	25
Dibromochloromethane	0.0500	0.05034		mg/L		101	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05532		mg/L		111	59 - 125	3	25
1,2-Dibromoethane	0.0500	0.05180		mg/L		104	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05349		mg/L		107	75 - 125	0	25
1,3-Dichlorobenzene	0.0500	0.05374		mg/L		107	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.05341		mg/L		107	75 - 125	0	25
Dichlorodifluoromethane	0.0500	0.04464		mg/L		89	50 - 150	1	25
1,1-Dichloroethane	0.0500	0.05698		mg/L		114	70 - 130	4	25
1,2-Dichloroethane	0.0500	0.05276		mg/L		106	72 - 130	5	25
1,1-Dichloroethene	0.0500	0.05583		mg/L		112	50 - 150	1	25
1,2-Dichloropropane	0.0500	0.05383		mg/L		108	74 - 125	6	25
1,3-Dichloropropane	0.0500	0.05331		mg/L		107	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05539		mg/L		111	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.05673		mg/L		113	75 - 125	1	25
Ethylbenzene	0.0500	0.05372		mg/L		107	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.05625		mg/L		112	75 - 125	5	25
Isopropylbenzene	0.0500	0.05366		mg/L		107	75 - 125	1	25
Methylene Chloride	0.0500	0.05113		mg/L		102	71 - 125	2	25
m,p-Xylenes	0.0500	0.05302		mg/L		106	75 - 125	4	25
MTBE	0.0500	0.05487		mg/L		110	65 - 135	3	25
Naphthalene	0.0500	0.06216		mg/L		124	70 - 130	6	25
n-Butylbenzene	0.0500	0.06197		mg/L		124	75 - 125	3	25
N-Propylbenzene	0.0500	0.05898		mg/L		118	75 - 125	2	25
o-Xylene	0.0500	0.05255		mg/L		105	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05739		mg/L		115	75 - 125	3	25
sec-Butylbenzene	0.0500	0.05843		mg/L		117	75 - 125	3	25
Styrene	0.0500	0.05296		mg/L		106	75 - 125	3	25
tert-Butylbenzene	0.0500	0.05635		mg/L		113	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.05048		mg/L		101	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.05715		mg/L		114	74 - 125	0	25
Tetrachloroethene	0.0500	0.05033		mg/L		101	71 - 125	0	25
Toluene	0.0500	0.05196		mg/L		104	70 - 130	1	25

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QC Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-105688/4

Matrix: Water

Analysis Batch: 105688

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	0.05495		mg/L		110	75 - 125	0	25
trans-1,3-Dichloropropene	0.0500	0.05422		mg/L		108	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05968		mg/L		119	75 - 137	6	25
1,2,4-Trichlorobenzene	0.0500	0.05694		mg/L		114	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.05468		mg/L		109	70 - 130	1	25
1,1,2-Trichloroethane	0.0500	0.05275		mg/L		106	70 - 130	3	25
Trichloroethene	0.0500	0.05143		mg/L		103	75 - 135	1	25
Trichlorofluoromethane	0.0500	0.05614		mg/L		112	60 - 140	0	25
1,2,3-Trichloropropane	0.0500	0.05585		mg/L		112	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.05613		mg/L		112	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.05614		mg/L		112	60 - 140	2	25
Vinyl chloride	0.0500	0.05322		mg/L		106	60 - 140	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: 880-28915-1 MS

Matrix: Water

Analysis Batch: 105688

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	<0.000533	U	0.0500	0.05264		mg/L		105	66 - 142
Bromobenzene	<0.000665	U	0.0500	0.05119		mg/L		102	75 - 125
Bromochloromethane	<0.000657	U	0.0500	0.05221		mg/L		104	60 - 140
Bromodichloromethane	<0.000552	U	0.0500	0.05336		mg/L		107	75 - 125
Bromoform	<0.000633	U	0.0500	0.05015		mg/L		100	75 - 125
Bromomethane	<0.00142	U	0.0500	0.04349		mg/L		87	60 - 140
2-Butanone	<0.00828	U	0.250	0.2567		mg/L		103	60 - 140
Carbon tetrachloride	<0.000896	U	0.0500	0.05168		mg/L		103	62 - 125
Chlorobenzene	<0.000530	U	0.0500	0.05172		mg/L		103	60 - 133
Chloroethane	<0.00198	U	0.0500	0.05255		mg/L		105	60 - 140
Chloroform	<0.000643	U	0.0500	0.05389		mg/L		108	70 - 130
Chloromethane	<0.00204	U	0.0500	0.04539		mg/L		91	60 - 140
2-Chlorotoluene	<0.00118	U	0.0500	0.05402		mg/L		108	73 - 125
4-Chlorotoluene	<0.000472	U	0.0500	0.05473		mg/L		109	74 - 125
cis-1,2-Dichloroethene	<0.000714	U	0.0500	0.05470		mg/L		109	75 - 125
cis-1,3-Dichloropropene	<0.00107	U	0.0500	0.05545		mg/L		111	74 - 125
Dibromochloromethane	<0.000547	U	0.0500	0.05188		mg/L		104	73 - 125
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.0500	0.05224		mg/L		104	59 - 125
1,2-Dibromoethane	<0.000999	U	0.0500	0.05185		mg/L		104	73 - 125
1,2-Dichlorobenzene	<0.000509	U	0.0500	0.05256		mg/L		105	75 - 125
1,3-Dichlorobenzene	<0.000513	U	0.0500	0.05235		mg/L		105	75 - 125
1,4-Dichlorobenzene	<0.000513	U	0.0500	0.05194		mg/L		104	75 - 125
Dichlorodifluoromethane	<0.000919	U F1	0.0500	0.03399	F1	mg/L		68	70 - 130
1,1-Dichloroethane	<0.000635	U	0.0500	0.05607		mg/L		112	72 - 125

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QC Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: 880-28915-1 MS

Client Sample ID: MW-1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 105688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	<0.000590	U	0.0500	0.05300		mg/L		106	68 - 127
1,1-Dichloroethene	<0.000738	U	0.0500	0.05157		mg/L		103	59 - 172
1,2-Dichloropropane	<0.000667	U	0.0500	0.05414		mg/L		108	74 - 125
1,3-Dichloropropane	<0.000514	U	0.0500	0.05385		mg/L		108	75 - 125
2,2-Dichloropropane	<0.000780	U	0.0500	0.05431		mg/L		109	75 - 125
1,1-Dichloropropene	<0.00160	U	0.0500	0.05378		mg/L		108	75 - 125
Ethylbenzene	<0.000411	U	0.0500	0.05323		mg/L		106	75 - 125
Hexachlorobutadiene	<0.00126	U	0.0500	0.05124		mg/L		102	75 - 125
Isopropylbenzene	<0.000613	U	0.0500	0.05257		mg/L		105	75 - 125
Methylene Chloride	<0.00173	U	0.0500	0.04984		mg/L		100	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05356		mg/L		107	75 - 125
MTBE	<0.00139	U	0.0500	0.05521		mg/L		110	65 - 135
Naphthalene	<0.00135	U	0.0500	0.06064		mg/L		121	70 - 130
n-Butylbenzene	<0.000644	U	0.0500	0.05709		mg/L		114	75 - 125
sec-Propylbenzene	<0.000498	U	0.0500	0.05526		mg/L		111	75 - 125
o-Xylene	<0.000551	U	0.0500	0.05251		mg/L		105	75 - 125
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.0500	0.05306		mg/L		106	75 - 125
sec-Butylbenzene	<0.000468	U	0.0500	0.05378		mg/L		108	75 - 125
Styrene	<0.000655	U	0.0500	0.05308		mg/L		106	75 - 125
tert-Butylbenzene	<0.000442	U	0.0500	0.05246		mg/L		105	75 - 125
1,1,1,2-Tetrachloroethane	<0.000644	U	0.0500	0.05018		mg/L		100	72 - 125
1,1,2,2-Tetrachloroethane	<0.000470	U	0.0500	0.05717		mg/L		114	74 - 125
Tetrachloroethene	<0.000801	U	0.0500	0.04853		mg/L		97	71 - 125
Toluene	<0.000475	U	0.0500	0.05178		mg/L		104	59 - 139
trans-1,2-Dichloroethene	<0.000945	U	0.0500	0.05262		mg/L		105	75 - 125
trans-1,3-Dichloropropene	<0.00127	U	0.0500	0.05514		mg/L		110	66 - 125
1,2,3-Trichlorobenzene	<0.00217	U	0.0500	0.05656		mg/L		113	75 - 137
1,2,4-Trichlorobenzene	<0.00175	U	0.0500	0.05465		mg/L		109	75 - 135
1,1,1-Trichloroethane	<0.00169	U	0.0500	0.05198		mg/L		104	75 - 125
1,1,2-Trichloroethane	<0.000511	U	0.0500	0.05459		mg/L		109	75 - 127
Trichloroethene	<0.000791	U	0.0500	0.04953		mg/L		99	62 - 137
Trichlorofluoromethane	<0.000638	U	0.0500	0.05089		mg/L		102	60 - 140
1,2,3-Trichloropropane	<0.000490	U	0.0500	0.05503		mg/L		110	75 - 125
1,2,4-Trimethylbenzene	<0.000417	U	0.0500	0.05399		mg/L		108	75 - 125
1,3,5-Trimethylbenzene	<0.000456	U	0.0500	0.05331		mg/L		107	70 - 125
Vinyl chloride	<0.000638	U	0.0500	0.04888		mg/L		98	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		74 - 124						
Dibromofluoromethane (Surr)	103		75 - 131						
1,2-Dichloroethane-d4 (Surr)	104		63 - 144						
Toluene-d8 (Surr)	103		80 - 120						

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-106178/1-A

Matrix: Water

Analysis Batch: 106190

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106178

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		06/05/23 10:55	06/05/23 23:04	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		06/05/23 10:55	06/05/23 23:04	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		06/05/23 10:55	06/05/23 23:04	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 135			06/05/23 10:55	06/05/23 23:04	1
o-Terphenyl	115		70 - 135			06/05/23 10:55	06/05/23 23:04	1

Lab Sample ID: LCS 860-106178/2-A

Matrix: Water

Analysis Batch: 106190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.7	131.4		mg/L		132	70 - 135
Diesel Range Organics (Over C10-C28)	99.6	109.6		mg/L		110	70 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	117		70 - 135				
o-Terphenyl	119		70 - 135				

Lab Sample ID: LCSD 860-106178/3-A

Matrix: Water

Analysis Batch: 106190

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106178

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.7	129.7		mg/L		130	70 - 135	1	35
Diesel Range Organics (Over C10-C28)	99.6	106.9		mg/L		107	70 - 135	2	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	119		70 - 135						
o-Terphenyl	121		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-105602/3

Matrix: Water

Analysis Batch: 105602

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			05/31/23 15:07	1
Fluoride	<0.100	U	0.500	0.100 mg/L			05/31/23 15:07	1
Sulfate	<0.200	U	0.500	0.200 mg/L			05/31/23 15:07	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-105602/4

Matrix: Water

Analysis Batch: 105602

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	9.071		mg/L		91	90 - 110
Fluoride	10.0	10.04		mg/L		100	90 - 110
Sulfate	10.0	9.285		mg/L		93	90 - 110

Lab Sample ID: LCSD 860-105602/5

Matrix: Water

Analysis Batch: 105602

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	9.154		mg/L		92	90 - 110	1	20
Fluoride	10.0	10.15		mg/L		102	90 - 110	1	20
Sulfate	10.0	9.383		mg/L		94	90 - 110	1	20

Lab Sample ID: LLCS 860-105602/7

Matrix: Water

Analysis Batch: 105602

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	0.5541		mg/L		111	50 - 150
Fluoride	0.500	0.4455	J	mg/L		89	50 - 150
Sulfate	0.500	0.2756	J	mg/L		55	50 - 150

Lab Sample ID: MB 860-105603/3

Matrix: Water

Analysis Batch: 105603

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			05/31/23 15:07	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			05/31/23 15:07	1

Lab Sample ID: LCS 860-105603/4

Matrix: Water

Analysis Batch: 105603

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	10.07		mg/L		101	80 - 120
Nitrite as N	10.0	10.32		mg/L		103	80 - 120

Lab Sample ID: LCSD 860-105603/5

Matrix: Water

Analysis Batch: 105603

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	10.17		mg/L		102	80 - 120	1	20
Nitrite as N	10.0	10.42		mg/L		104	80 - 120	1	20

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QC Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-105603/6

Matrix: Water

Analysis Batch: 105603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LLCS	LLCS	Unit	D	%Rec	%Rec	
	Added	Result	Qualifier					Limits	
Nitrate as N	0.100	0.1120			mg/L		112	50 - 150	
Nitrite as N	0.100	0.06262	J		mg/L		63	50 - 150	

Lab Sample ID: MB 860-105823/3

Matrix: Water

Analysis Batch: 105823

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<0.250	U	0.500	0.250 mg/L			06/01/23 14:41	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/01/23 14:41	1
Sulfate	<0.200	U	0.500	0.200 mg/L			06/01/23 14:41	1

Lab Sample ID: LCS 860-105823/4

Matrix: Water

Analysis Batch: 105823

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS	LCS	Unit	D	%Rec	%Rec	
	Added	Result	Qualifier					Limits	
Chloride	10.0	9.969			mg/L		100	90 - 110	
Fluoride	10.0	10.26			mg/L		103	90 - 110	
Sulfate	10.0	10.09			mg/L		101	90 - 110	

Lab Sample ID: LCSD 860-105823/5

Matrix: Water

Analysis Batch: 105823

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike		LCSD	LCSD	Unit	D	%Rec	%Rec		RPD	
	Added	Result	Qualifier					Limits		RPD	Limit
Chloride	10.0	9.973			mg/L		100	90 - 110	0		20
Fluoride	10.0	10.38			mg/L		104	90 - 110	1		20
Sulfate	10.0	10.10			mg/L		101	90 - 110	0		20

Lab Sample ID: LLCS 860-105823/7

Matrix: Water

Analysis Batch: 105823

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LLCS	LLCS	Unit	D	%Rec	%Rec	
	Added	Result	Qualifier					Limits	
Chloride	0.500	0.4337	J		mg/L		87	50 - 150	
Fluoride	0.500	0.4070	J		mg/L		81	50 - 150	
Sulfate	0.500	0.4446	J		mg/L		89	50 - 150	

Lab Sample ID: MB 860-105824/3

Matrix: Water

Analysis Batch: 105824

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			06/01/23 14:41	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/01/23 14:41	1

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QC Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-105824/4

Matrix: Water

Analysis Batch: 105824

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	10.0	10.08		mg/L		101	80 - 120		
Nitrite as N	10.0	10.24		mg/L		102	80 - 120		

Lab Sample ID: LCSD 860-105824/5

Matrix: Water

Analysis Batch: 105824

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	10.08		mg/L		101	80 - 120	0	20
Nitrite as N	10.0	10.27		mg/L		103	80 - 120	0	20

Lab Sample ID: LLCS 860-105824/6

Matrix: Water

Analysis Batch: 105824

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	0.09894	J	mg/L		99	50 - 150		
Nitrite as N	0.100	0.1135		mg/L		114	50 - 150		

Lab Sample ID: MB 860-105998/3

Matrix: Water

Analysis Batch: 105998

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<0.250	U	0.500	0.250 mg/L			06/02/23 15:03	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/02/23 15:03	1
Sulfate	<0.200	U	0.500	0.200 mg/L			06/02/23 15:03	1

Lab Sample ID: LCS 860-105998/4

Matrix: Water

Analysis Batch: 105998

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	9.925		mg/L		99	90 - 110		
Fluoride	10.0	10.34		mg/L		103	90 - 110		
Sulfate	10.0	10.03		mg/L		100	90 - 110		

Lab Sample ID: LCSD 860-105998/5

Matrix: Water

Analysis Batch: 105998

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	9.958		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.46		mg/L		105	90 - 110	1	20
Sulfate	10.0	10.07		mg/L		101	90 - 110	0	20

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QC Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-105998/7

Matrix: Water

Analysis Batch: 105998

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	0.4302	J	mg/L		86	50 - 150	
Fluoride	0.500	0.4158	J	mg/L		83	50 - 150	
Sulfate	0.500	0.4422	J	mg/L		88	50 - 150	

Lab Sample ID: MB 860-105999/3

Matrix: Water

Analysis Batch: 105999

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			06/02/23 15:03	1
Nitrite as N	<0.0293	U	0.100	mg/L			06/02/23 15:03	1

Lab Sample ID: LCS 860-105999/4

Matrix: Water

Analysis Batch: 105999

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	10.03		mg/L		100	80 - 120	
Nitrite as N	10.0	10.25		mg/L		102	80 - 120	

Lab Sample ID: LCSD 860-105999/5

Matrix: Water

Analysis Batch: 105999

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	
									RPD	Limit
Nitrate as N	10.0	10.06		mg/L		101	80 - 120		0	20
Nitrite as N	10.0	10.28		mg/L		103	80 - 120		0	20

Lab Sample ID: LLCS 860-105999/6

Matrix: Water

Analysis Batch: 105999

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	0.09873	J	mg/L		99	50 - 150	
Nitrite as N	0.100	0.1158		mg/L		116	50 - 150	

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-105859/3

Matrix: Water

Analysis Batch: 105859

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			06/01/23 11:45	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			06/01/23 11:45	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			06/01/23 11:45	1

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QC Sample Results

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 860-105859/4

Matrix: Water

Analysis Batch: 105859

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	252.7		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-105859/5

Matrix: Water

Analysis Batch: 105859

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	255.3		mg/L		102	85 - 115	1	20

Lab Sample ID: 880-28915-1 DU

Matrix: Water

Analysis Batch: 105859

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	692		697.3		mg/L		0.8	20
Bicarbonate Alkalinity as CaCO3	692		697.3		mg/L		0.8	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-105802/1

Matrix: Water

Analysis Batch: 105802

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	0.495 mg/L			06/01/23 13:29	1

Lab Sample ID: LCS 860-105802/2

Matrix: Water

Analysis Batch: 105802

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	50.0	43.00		mg/L		86	80 - 120

Lab Sample ID: LCSD 860-105802/3

Matrix: Water

Analysis Batch: 105802

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	50.0	43.00		mg/L		86	80 - 120	0	20

Lab Sample ID: 880-28915-2 MS

Matrix: Water

Analysis Batch: 105802

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.495	U	50.0	41.60		mg/L		83	80 - 120

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QC Sample Results

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

Job ID: 880-28915-1

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

Lab Sample ID: 880-28915-2 MSD							Client Sample ID: MW-2					
Matrix: Water							Prep Type: Total/NA					
Analysis Batch: 105802												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Sulfide	<0.495	U	50.0	41.60		mg/L		83	80 - 120	0	20	

QC Association Summary

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 105688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28915-1	MW-1	Total/NA	Water	8260C	
880-28915-2	MW-2	Total/NA	Water	8260C	
MB 860-105688/9	Method Blank	Total/NA	Water	8260C	
LCS 860-105688/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-105688/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-28915-1 MS	MW-1	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28915-1	MW-1	Total/NA	Water	8015 NM	
880-28915-2	MW-2	Total/NA	Water	8015 NM	

Prep Batch: 106178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28915-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-28915-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-106178/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-106178/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-106178/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 106190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28915-1	MW-1	Total/NA	Water	8015B NM	106178
880-28915-2	MW-2	Total/NA	Water	8015B NM	106178
MB 860-106178/1-A	Method Blank	Total/NA	Water	8015B NM	106178
LCS 860-106178/2-A	Lab Control Sample	Total/NA	Water	8015B NM	106178
LCSD 860-106178/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	106178

HPLC/IC

Analysis Batch: 105602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28915-1	MW-1	Total/NA	Water	300.0	
880-28915-2	MW-2	Total/NA	Water	300.0	
MB 860-105602/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105602/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105602/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105602/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 105603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28915-1	MW-1	Total/NA	Water	300.0	
880-28915-2	MW-2	Total/NA	Water	300.0	
MB 860-105603/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105603/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105603/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105603/6	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Job ID: 880-28915-1

Project/Site: South Hobbs - 03B1417002

HPLC/IC

Analysis Batch: 105823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-105823/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105823/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105823/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105823/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 105824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-105824/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105824/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105824/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105824/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 105998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-105998/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105998/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105998/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105998/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 105999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28915-1	MW-1	Total/NA	Water	300.0	
880-28915-2	MW-2	Total/NA	Water	300.0	
MB 860-105999/3	Method Blank	Total/NA	Water	300.0	
LCS 860-105999/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-105999/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-105999/6	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 105802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28915-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-28915-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-105802/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-105802/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-105802/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-28915-2 MS	MW-2	Total/NA	Water	SM 4500 S2 F	
880-28915-2 MSD	MW-2	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 105857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28915-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-28915-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 105859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28915-1	MW-1	Total/NA	Water	SM 2320B	
880-28915-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-105859/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-105859/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Eurofins Midland

QC Association Summary

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

Job ID: 880-28915-1

General Chemistry (Continued)

Analysis Batch: 105859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-105859/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-28915-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 106540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28915-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-28915-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

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Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-28915-1

Client Sample ID: MW-1

Date Collected: 05/30/23 12:20

Date Received: 05/30/23 15:54

Lab Sample ID: 880-28915-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	105688	NA	EET HOU	06/01/23 09:45
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	06/06/23 10:51
Total/NA	Prep	8015NM Aq Prep			106178	MCA	EET HOU	06/05/23 10:55
Total/NA	Analysis	8015B NM		1	106190	T1S	EET HOU	06/05/23 23:24
Total/NA	Analysis	300.0		1	105602	A1S	EET HOU	05/31/23 23:18
Total/NA	Analysis	300.0		1	105603	A1S	EET HOU	05/31/23 23:18
Total/NA	Analysis	300.0		1	105999	WP	EET HOU	06/03/23 00:50
Total/NA	Analysis	SM 2320B		1	105859	TL	EET HOU	06/01/23 13:54
Total/NA	Analysis	SM 4500 CO2 D		1	106540	SC	EET HOU	06/07/23 08:33
Total/NA	Analysis	SM 4500 H+ B		1	105857	TL	EET HOU	06/01/23 15:00
Total/NA	Analysis	SM 4500 S2 F		1	105802	SCI	EET HOU	06/01/23 13:29

Client Sample ID: MW-2

Date Collected: 05/30/23 11:25

Date Received: 05/30/23 15:54

Lab Sample ID: 880-28915-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	105688	NA	EET HOU	06/01/23 10:05
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	06/06/23 10:51
Total/NA	Prep	8015NM Aq Prep			106178	MCA	EET HOU	06/05/23 10:55
Total/NA	Analysis	8015B NM		1	106190	T1S	EET HOU	06/05/23 23:44
Total/NA	Analysis	300.0		1	105602	A1S	EET HOU	06/01/23 00:11
Total/NA	Analysis	300.0		1	105603	A1S	EET HOU	06/01/23 00:11
Total/NA	Analysis	300.0		1	105999	WP	EET HOU	06/03/23 00:13
Total/NA	Analysis	SM 2320B		1	105859	TL	EET HOU	06/01/23 14:22
Total/NA	Analysis	SM 4500 CO2 D		1	106540	SC	EET HOU	06/07/23 08:33
Total/NA	Analysis	SM 4500 H+ B		1	105857	TL	EET HOU	06/01/23 15:02
Total/NA	Analysis	SM 4500 S2 F		1	105802	SCI	EET HOU	06/01/23 13:29

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: 880-28915-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	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: 880-28915-1

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 F	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	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: South Hobbs - 03B1417002

Job ID: 880-28915-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28915-1	MW-1	Water	05/30/23 12:20	05/30/23 15:54
880-28915-2	MW-2	Water	05/30/23 11:25	05/30/23 15:54

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Chain of Custody

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

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

Work Order No: 28915

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

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

Project Name:	South Hobbs	Turn Around		ANALYSIS REQUEST	Work Order Notes
Project Number:	03B1417002	Routine	☐		
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):	16/4.5	Thermometer ID	TTC		
Received Intact:	Yes ☒ No ☐	Correction Factor	-35		
Cooler Custody Seals	Yes ☐ No ☒	Total Containers:			
Sample Custody Seals	Yes ☐ No ☒				
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	
MMW-1	GW	5-30-23	1226		
MMW-2	GW	5-30-23	1125		
Number of Containers					
Dissolved Carbon Dioxide 4500 CO2 c					
Dissoved Sulfide SW-846 #376.2					
VOC SW-846 #8260					
TPH EPA Method #8015					
Chloride EPA Method #846 300					
pH EPA SW-846 Method 150.1					
TAT starts the day received by the lab if received by 4:30pm					
Sample Comments					
24 Hr					



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. [Signature]	[Signature]	5/30/23	2. [Signature]		
3. [Signature]		1554	4. [Signature]		
5. [Signature]			6. [Signature]		

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

Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-28915-1

Login Number: 28915

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: 880-28915-1

Login Number: 28915

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

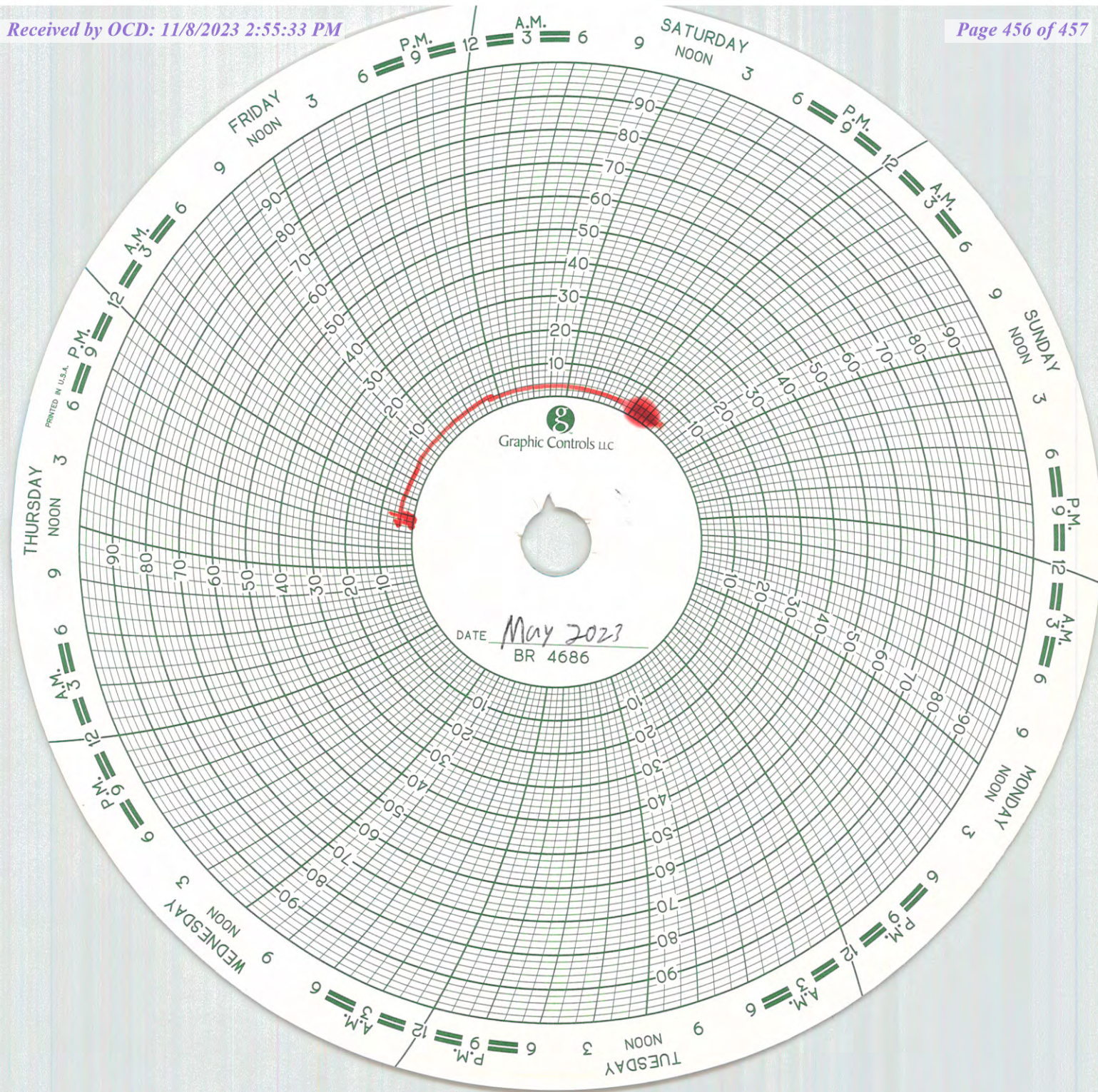
List Creation: 05/31/23 07:49 PM

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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



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 284070

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID:	157984
	Action Number:	284070
	Action Type:	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Accepted for the record. GAS MITIGATION MONTHLY REPORT - MAY 2023 South Hobbs G/SA Unit Order No. R-4934-F, Case No. 14981	3/21/2024