



GAS MITIGATION MONTHLY REPORT - JUNE 2022

Property:

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

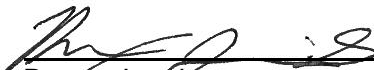
**New Mexico EMNRD OCD
Order No. R-4934-F, Case No. 14981**

July 22, 2022

Prepared for:

**Occidental Permian LTD
6001 Deauville Blvd.
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Prepared by:


Beaux Jennings
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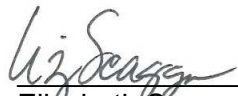

Elizabeth Scaggs
Principal



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Order No. R-4934-F, Case No. 14981
Unit F, Section 5, Township 19S, Range 38E
Latitude 32.690683, Longitude -103.173158
Lea County, New Mexico

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) Order No. R-4934-F Case No. 14981

This Gas Mitigation Monthly Report - June 2022 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, and the *Gas Mitigation Monthly Report - May 2022*, dated July 22, 2022. 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 (2) monitoring wells (MW-1 and MW-2) are referred to as the "Site".

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

On June 30, 2019, elevated pressure was observed at the Levey Well. At the request of the New Mexico Oil Conservation Division (NMOCD), localized area wells were "shut in" from operational use. Over time, the pressure being observed at the Levey Well declined until pressure was no longer recorded. Observations and water analysis of the Levey water well did identify free gas in the well bore; however, pressure from the underlying groundwater-bearing zone was no longer present.

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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 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 (2) 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 (2) 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 26, 2022. The groundwater samples collected from the monitoring wells (MW-1 and MW-2) were analyzed for total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) utilizing Environmental Protection Agency (EPA) Method 8015M, volatile organic compounds (VOCs) utilizing EPA Method SW-846 #8260 (full list), carbon dioxide utilizing Standard Method 4500 CO₂ C, dissolved sulfide utilizing EPA Method SW-846 #376.2, chloride using EPA Method SW-846 #300.0 and pH utilizing EPA Method SW-846 #150.1. The groundwater samples collected from the Levey Well were analyzed for VOCs, recoverable metals per ICP by EPA 200.7, inorganic anions by EPA 300/300.1, pH by SM4500-H, total dissolved solids (TDS) by SM2540C, alkalinity by SM2320B and cation-anion balance by SM1030E.

During the June 2022 groundwater sampling event the groundwater samples did not exhibit constituent concentrations above New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards* (GQSs), with the exception of benzene, Nitrite as N and TDS. Benzene concentrations ranged from 0.0119 milligrams per liter (mg/L) to 0.0387 mg/L in monitoring well MW-2. Nitrite as N concentrations ranged from 0.236 mg/L to 5.21 mg/L in monitoring well MW-2. TDS analytical results ranged from 889 mg/L to 1,170 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.

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To mitigate potential exposures, the Levey residence was purchased by OXY and remains unoccupied. A passive vent was installed on the Levey Well to mitigate safety and explosivity concerns for the residential and work area. There has been no detectable build-up of pressure in the Levey Well or monitoring wells MW-1 and MW-2. Hydrogen sulfide (H_2S) has not been detected in any of the three (3) aforementioned wells since July 15, 2020. All detections of H_2S prior to July 15, 2020 were within the well bore. No H_2S above permissible exposure limits was observed outside of the well bores.

OXY installed pressure reading charts at the Levey Well to measure the potential for any returning pressure at the well. These charts measure pressure 24 hours a day and show that no pressure has returned to the Levey Well. Monitoring wells MW-1 and MW-2 were physically monitored for the presence of gas and pressure on several dates from 7/1/2020 to 6/30/2022, with no pressure observed in either monitoring well. The pressure reading charts available for June 2022 are 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 (2) 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.

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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 June 1 - 30, 2022 was approximately 667,810 gallons. 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 as of March 14, 2022.

1.3 Gas Recovery – Levey Well

OXY conducted two (2) vacuum recovery events during the month of June 2022 with positive results as shown on **Table 4 in Appendix B**. The purpose of these events is 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 July 2022 once every two (2) weeks until the sampling results of the air is 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 on June 8 and 20, 2022 were taken prior to, during, and subsequent to each vacuum recovery event utilizing a Summa® canister. Upon arrival at the Site, the Levey Well is turned off and allowed to stabilize for approximately one (1) hour. An air sample is taken after one (1) hour of the Levey Well stabilization, prior to initiating the vacuum recovery event.

During the June 8, 2022 vacuum recovery event, the vacuum was applied to the Levey Well for a duration of approximately one (1) hour. Approximately 15 minutes and 45 minutes 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 (1) hour subsequent to the vacuum recovery event. Water was not recovered during the vacuum recovery event.

During the June 20, 2022 vacuum recovery event, the vacuum was applied to the Levey Well for a duration of approximately two (2) hours. Approximately one (1) hour and two (2) 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 (1) 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 June 2022 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 (1) 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 is now active as of 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 (1) groundwater sample is collected from each monitoring well.

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

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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 (3) to five (5) minutes. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for three (3) 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 Xenco (formerly Xenco) 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 July 2022. Based on the concentrations observed in the Levey Well air samples, the vacuum recovery events are drawing the free gas over to the Levey Well. Prior to each vacuum recovery event, an air sample is taken to give a representative snapshot of static conditions of gas in the subsurface. Elevated concentrations of acetone, cyclohexane, ethanol, heptane, n-hexane, 2-Butanone (MEK), 2-propanol, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 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 15 minutes and 45 minutes or one (1) hour and two (2) hours into the vacuum recovery event. During each of the vacuum recovery events, acetone, cyclohexane, ethanol, heptane, n-hexane, 2-propanol, 2-Butanone (MEK), toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, o-xylene and TPH concentrations significantly decrease throughout the duration of the event.

Approximately one (1) hour after the termination of the vacuum recovery event, a final air sample is collected. Elevated concentrations of acetone, cyclohexane, ethanol, heptane, n-hexane, 2-Butanone (MEK), 2-propanol, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, o-xylene and TPH begin to accumulate inside the Levey water well casing. These results indicate that the vacuum recovery events are successful in drawing the subsurface gas over to the Levey Well.

Air samples are also collected on a bi-weekly basis approximately one (1) week subsequent to the vacuum recovery event. During each of the bi-weekly air sampling events, elevated concentrations of acetone, cyclohexane, ethanol, heptane, n-hexane, 2-Butanone (MEK), 2-propanol, toluene, 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 June 2022 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 analytical results ranged from 889 mg/L to 1,170 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 (3) 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 and the March 9, 2022, which had a benzene analytical result of 0.00552 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 0.0119 mg/L to 0.0387 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

Two (2) Nitrite as N exceedances of 1.47 mg/L to 5.21 mg/L from monitoring well MW-2 were observed during the June 2022 sampling, which are above the WQCC GQS of 1.0 mg/L.

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

4.0 RECOMMENDATIONS

OXY has demonstrated over time that the SHU #290 and the surrounding oil and gas operations were and are not a contributor to the previous related pressure observed in the Levey Well. This has been demonstrated by over four (4) 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.

Based on verbal communication between OXY and NMOCD, OXY concurs with the following recommendations and/or requests from the NMOCD through the remainder of 2022:

- **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 to be utilized, as described in Section 2.1;**
- **Continue to monitor the Levey Well and monitoring wells MW-1 and 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; and**
- **Implement monthly sampling for water and air on the Levey Well and monitoring wells MW-1 and MW-2 for the remainder of 2022.**

5.0 REFERENCES

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



APPENDIX A

Figures and Graphs



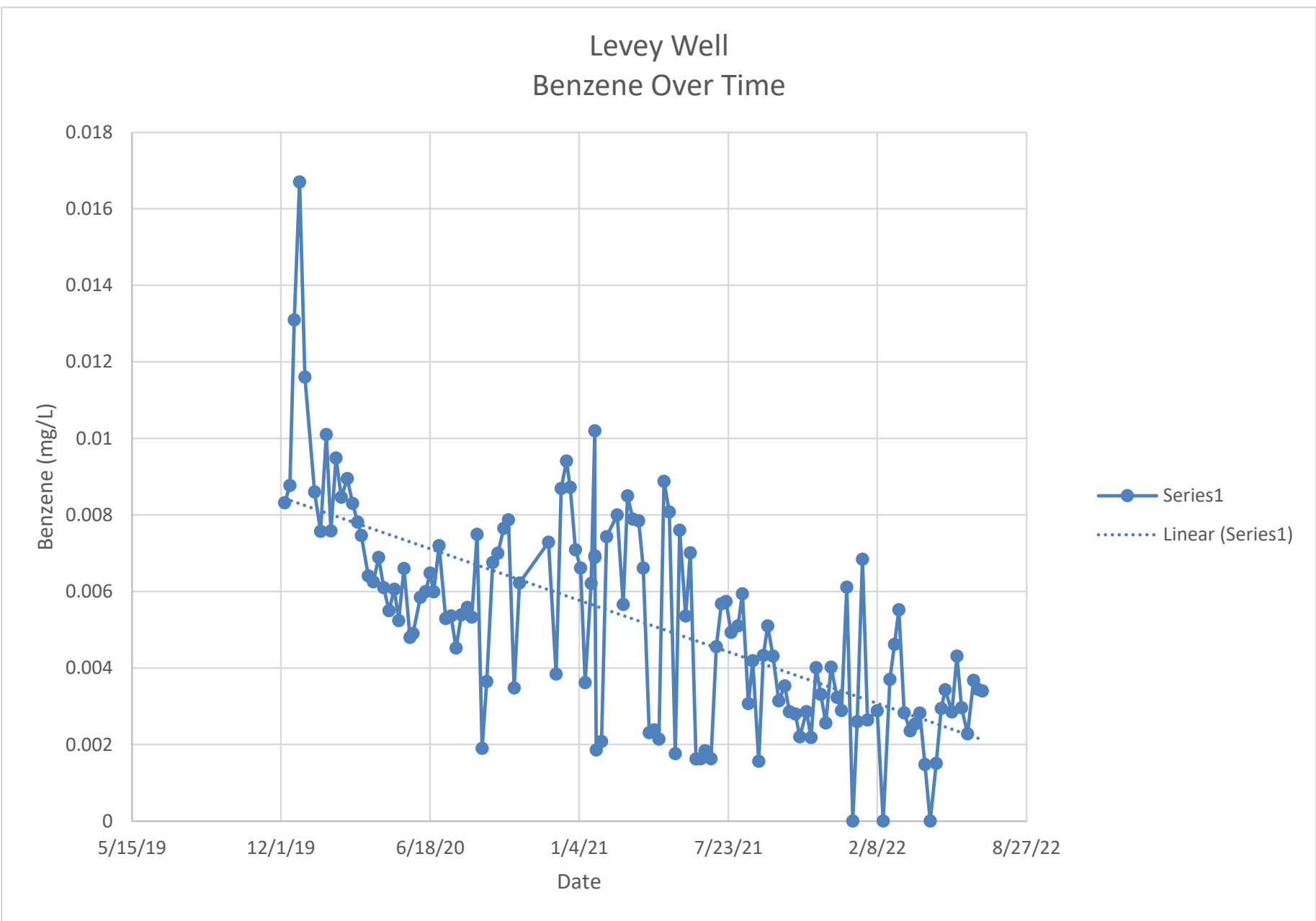
SITE MAP

PERMIAN EOR, INC
S HOBBS G/SA UNIT
SE ¼ of the NW ¼, Sec 5, T29S, R38E, Hobbs, New Mexico
32.690683° N, 103.173158° W

PROJECT NUMBER: 03B1417001

FIGURE

1





APPENDIX B

Tables

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

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

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																													
Permian EOR - Levey Well																													
Hobbs, New Mexico																													
Well ID	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	1/6/2021	0.00661	0.0494	0.0239	0.0141	0.0930	0.107	<0.0500	<0.00100	0.00233	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00140	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0122	<0.0100	0.00710	<0.00100	<0.00100	0.0334	0.0113
	1/12/2021	0.00362	0.0206	0.0168	0.00849	0.0547	0.0632	<0.0500	0.00159	0.00278	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00157	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0105	<0.0100	0.00959	<0.00100	<0.00100	0.0540	0.0174
	1/20/2021	0.00621	0.0383	0.0245	0.0137	0.0884	0.102	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00159	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0135	<0.0100	0.00920	<0.00100	<0.00100	0.0470	0.0152
	1/25/2021	0.0102	0.0717	0.0337	0.0195	0.130	0.150	<0.0500	0.00167	0.00287	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00162	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0162	<0.0100	0.00914	<0.00100	<0.00100	0.0455	0.0149
	1/25/2021	0.00689	0.0353	0.0243	0.0113	0.0733	0.0846	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0127	<0.0100	0.0115	<0.00100	<0.00100	0.0687	0.0205
	1/25/2021	0.00693	0.0342	0.0251	0.0113	0.0737	0.0850	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00146	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0133	<0.0100	0.0124	<0.00100	<0.00100	0.0738	0.0218
	1/27/2021	0.00186	0.00398	0.0101	0.00322	0.0219	0.0251	<0.0500	0.00110	0.00169	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00618	<0.0100	0.0125	<0.00100	<0.00100	0.0743	0.0224
	2/3/2021	0.00208	0.00551	0.0120	0.00438	0.0262	0.0306	<0.0500	<0.00100	0.00195	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00101	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00756	<0.0100	0.0156	<0.00100	<0.00100	0.0945	0.0282
	2/10/2021	0.00743	0.0531	0.0280	0.0157	0.104	0.120	<0.0500	0.00140	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0142	<0.0100	0.00876	<0.00100	<0.00100	0.0448	0.0143
	2/24/2021	0.00800	0.0593	0.0287	0.0177	0.109	0.127	<0.0500	<0.00100	0.0024	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00142	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0140	<0.0100	0.00808	<0.00100	<0.00100	0.0408	0.0132
	3/4/2021	0.00566	0.0446	0.0222	0.0133	0.0869	0.100	<0.0500	<0.00100	0.00187	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00110	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0105	<0.0100	0.00694	<0.00100	<0.00100	0.0390	0.0119
	3/10/2021	0.00850	0.0668	0.0314	0.0194	0.126	0.145	<0.0500	<0.00100	0.00270	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00176	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0156	<0.0100	0.00898	<0.00100	<0.00100	0.0466	0.0150
	3/17/2021	0.00789	0.0563	0.0273	0.0168	0.103	0.120	0.0253 J	0.000840 J	0.00239	<0.000195	<0.00100	<0.00100	NA	<0.000214	<0.000183	0.00139	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00830	<0.000228	<0.000162	0.0427	0.0135
	3/25/2021	0.00785	0.0585	0.0276	0.0175	0.109	0.127	0.0206 J	0.00129	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00143	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0141	<0.0100	0.00779	<0.00100	<0.00100	0.0416	<0.00100
	3/31/2021	0.00661	0.0459	0.0243	0.0143	0.0857	0.100	<0.00270	<0.000286	<0.000199	<0.000195	<0.00100	<0.00100	<0.0100	0.00302	<0.000183	0.00144	<0.000244	<0.00500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00840	<0.000228	<0.000162	0.0422	0.01370
	4/8/2021	0.00231	0.00502	0.0106	0.00358	0.0227	0.0263	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00103	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00689	<0.0100	0.0148	<0.00100	<0.00100	0.0951	0.0639
	4/15/2021	0.00238	0.00491	0.0109	0.00364	0.0266	0.0302	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00109	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00733	<0.0100	0.0162	<0.00100	<0.00100	0.111	<0.00100
	4/21/2021	0.00214	0.00431	0.00957	0.00340	0.0198	0.0232	<0.00270	<0.000286	0.00181	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00103	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00658	<0.00200	0.0149	<0.000228	<0.000623	0.109	0.0631
	4/28/2021	0.00888	0.0652	0.0325	0.0201	0.121	0.141	0.0198 J	<0.000286	0.00259	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0161	<0.00200	0.00855	<0.000228	<0.000623	0.0431	0.0138
	5/5/2021	0.00808	0.0527	0.0257	0.0160	0.0935	0.110	<0.00270	0.00135	0.00232	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00130	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0121	<0.00200	0.00760	<0.000228	<0.000623	0.0414	<0.000279
	5/13/2021	0.00176	0.00332	0.00899	0.00297	0.0187	0.0217	<0.00270	0.00109	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000802 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00592	<0.00200	0.0139	<0.000228	<0.000623	0.0828	0.0239
	5/19/2021	0.00760	0.0603	0.0296	0.0182	0.112	0.130	0.0188 J	<0.000286	0.00254	<0.000195	<0.000500	<0.000259	<0.000318															

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Permian EOR - Levey Well																													
Hobbs, New Mexico																													
Well ID	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroethylene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	1/6/2022	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	0.00212	<0.000228	<0.000623	0.00987	0.00337
	6/9/2022	0.00228	0.0182	0.00874	0.00514	0.0352	0.0403	<0.00270	0.000536 J	0.000776 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000539 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00436	<0.00200	0.00197	<0.000228	<0.000623	0.00847	0.00271
	6/17/2022	0.00368	0.0282	0.0141	0.00881	0.0544	0.0632	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000744 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00678	<0.00200	0.00340	<0.000228	<0.000623	0.0152	0.00482
	6/23/2022	0.00344	0.0304	0.0149	0.00959	0.0599	0.0695	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000733 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00715	<0.00200	0.00313	<0.000228	<0.000623	0.0161	0.00509
	6/29/2022	0.00340	0.0286	0.0137	0.00879	0.0558	0.0646	<0.00270	<0.000286	<0.000199	0.00122	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000651 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00632	<0.00200	0.00274	<0.000228	<0.000623	0.0140	0.00428

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																																			
Permian EOR - Levey Well Hobbs, New Mexico																																			
Well ID	Date	VOCs (mg/l)																																	
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene						
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE						
MW-1	5/26/2020	0.000500 J	<0.000500	<0.000146	<0.000192	0.00215 J	0.00215	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.00101	0.0005 J						
	6/30/2020	0.00275	<0.00100	<0.00100	<0.00100	0.0136	0.0136	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	0.00665	0.00271						
	8/20/2020	0.00222	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	0.00388	0.00175						
	10/23/2020	0.00353	<0.000367	<0.000657	<0.000642	0.00246 J	0.00246	NA																											
	11/24/2020	0.00241	<0.000500	0.000310 J	<0.000192	0.00133 J	0.001330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.00151	0.000820 J						
	12/18/2020	0.00257	<0.000500	0.000580 J	<0.000192	0.00145 J	0.00145	<0.00270	<0.000286	0.000350 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000270 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000320 J	<0.00200	0.000230 J	<0.000228	<0.000162	0.00234	0.00111						
	12/23/2020	0.00159	<0.000500	0.000380 J	<0.000192	0.000970 J	0.000970 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	0.000230 J	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.000720 J	0.000360 J						
	12/30/2020	0.00194	<0.000500	0.000470 J	<0.000192	0.00148 J	0.00148	<0.00270	<0.000286	0.000230 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000240 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00154	0.000750 J						
	1/6/2021	0.00209	<0.000500	0.000330 J	<0.000192	0.00122 J	0.00122	<0.00270	<0.000286	0.000310 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000260 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000190 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00219	0.00103						
	1/12/2021	0.00211	0.000690 J	0.000540 J	<0.000192	0.00163 J	0.00163	<0.00270	<0.000286	0.000220 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000200 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00143	0.000670 J						
	1/20/2021	0.00222	<0.000500	0.000430 J	<0.000192	0.00137 J	0.00137	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00140	0.000720 J						
	1/27/2021	0.00157	<0.000500	0.000400 J	<0.000192	0.00123 J	0.00123	0.00398 J	<0.000286	0.000270 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00153	0.000830 J						
	2/3/2021	0.00203	<0.000500	0.000430 J	<0.000192	0.00100 J	0.00100 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000180 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00105	0.000510 J						
	2/10/2021	0.00196	<0.000500	0.000560 J	<0.000192	0.00143 J	0.00143	<0.00575	<0.000286	0.000240 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000300 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00143	0.000740 J						
	2/24/2021	0.00158	<0.000500	0.000460 J	<0.000192	0.00110 J	0.0011	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.000930 J	0.000490 J						
	3/4/2021	0.00139	<0.000500	0.00102	<0.000192	0.00211 J	0.00211	<0.00575	<0.000286	0.000240 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000440 J	<0.00200	0.000240 J	<0.000228	<0.000162	0.00131	0.000680 J						
	3/10/2021	0.00143	<0.000500	0.000490 J	<0.000192	0.000900 J	0.000900 J	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000200 J	<0.00200	<0.000179	<0.000228	<0.000162	0.000780 J	0.000370 J						
	3/17/2021	0.00159	0.00112	0.000790 J	<0.000192	0.00183 J	0.00183	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000380 J	<0.00200	0.000230 J	<0.000228	<0.000162	0.00145	0.000570 J						
	3/25/2021	0.00159	<0.00100	0.000533 J	<0.00100	0.00123 J	0.00123 J	<0.0500	<0.00100	0.000214 J	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<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	0.000333 J	<0.000192	0.000714 J	0.000714 J	<0.00270	<0.000286																										

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TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																													
Permian EOR - Levey Well Hobbs, New Mexico																													
Well ID	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	5/26/2020	0.00901	0.0299	0.0069	0.0186	0.0545	0.0731	<0.00270	<0.000286	0.000270 J	<0.000195	<0.00500	<0.000259	NA	<0.000214	<0.000183	0.000660	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00223	<0.00200	0.000570 J	<0.000228	<0.000162	0.0125	0.00704
	6/30/2020	0.0124	0.0193	0.0187	0.0196	0.0903	0.110	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00667	<0.0100	0.00243	<0.00100	<0.00100	0.0231	0.00815
	8/20/2020	0.0148	0.0172	0.0182	0.0160	0.0802	0.0962	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00640	<0.0100	0.00170	<0.00100	<0.00100	0.0145	0.00421
	10/23/2020	0.0250	0.00730	0.0248	0.0186	0.110	0.129	NA	NA																				
	11/24/2020	0.0358	0.0613	0.0503	0.0465	0.221	0.2675	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00143	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0189	0.00242 J	<0.000179	<0.000228	<0.000162	0.0590	0.0149
	12/18/2020	0.0263	0.0260	0.0369	0.0240	0.165	0.189	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00113	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0148	<0.00200	0.00486	<0.000228	<0.000162	0.0467	0.0121
	12/23/2020	0.0299	0.0358	0.0381	0.0266	0.156	0.183	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00101	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0135	<0.00200	0.00408	<0.000228	<0.000162	0.0406	0.0102
	12/30/2020	0.0200	0.0242	0.0185	0.0146	0.0592	0.0738	<0.00270	0.000550 J	0.000680 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000540 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00603	<0.00200	0.00170	<0.000228	<0.000162	0.0116	0.00533
	1/6/2021	0.0200	0.0169	0.0231	0.0169	0.118	0.135	<0.00270	0.000390 J	0.00117	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00105	0.000500 J	<0.000396	<0.000174	<0.000199	<0.000481	0.00815	<0.00200	0.00267	0.000800 J	<0.000162	0.0339	0.0103
	1/12/2021	0.0193	0.0185	0.0198	0.0144	0.0922	0.107	<0.00270	0.000690 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00756	<0.00200	0.00242	<0.000228	<0.000162	0.0259	0.00698
	1/20/2021	0.0229	0.0169	0.0190	0.0136	0.0829	0.0965	0.00394 J	0.000400 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000470 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00177	<0.000228	<0.000162	0.0202	0.00517
	1/27/2021	0.0298	0.0276	0.0282	0.0269	0.155	0.182	0.00504 J	0.00103	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0117	<0.00200	0.00343	<0.000228	<0.000162	0.0500	0.0129
	2/3/2021	0.0286	0.0392	0.0258	0.0236	0.111	0.135	<0.00270	<0.000286	0.000850 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000590 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00817	<0.00200	0.00240	<0.000228	<0.000162	0.0267	0.00674
	2/10/2021	0.0307	0.0201	0.0329	0.0210	0.159	0.180	<0.00575	0.000870 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000940 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0120	<0.00200	0.00331	<0.000228	<0.000162	0.0407	0.00994
	2/24/2021	0.0218	0.0122	0.0164	0.0111	0.0749	0.086	<0.00575	0.000370 J	0.000640 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000480 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0060	<0.00200	0.00175	<0.000228	<0.000162	0.0191	0.00496
	3/4/2021	0.0264	0.0232	0.0320	0.0212	0.142	0.163	<0.00575	0.000430 J	0.00131	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000930 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0115	<0.00200	0.00390	<0.000228	<0.000162	0.0403	0.0100
	3/10/2021	0.0269	0.0234	0.0271	0.0206	0.117	0.138	<0.00575	<0.000286	0.000970 J	<0.000195	<0.00100	<0.000259	NA	<0.000214	<0.000183	0.000720 J	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.00931	<0.00200	0.00281	<0.000228	<0.000162	0.0287	0.00720
	3/17/2021	0.0238	0.0237	0.0257	0.0190	0.113	0.132	<0.0500	<0.00100	0.00113	<0.00100	<0.00100	<0.000259	NA	<0.00100	<0.00100	<0.00100	<0.00500	<0.00500	<0.00500	<0.00100	<0.000481	0.00923	<0.0100	0.00305	<0.00100	<0.00100	0.0315	0.00821
	3/25/2021	0.0209	0.0281	0.0202	0.0165	0.0892	0.106	<0.0500	<0.00100	0.000799 J	0.00134	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.000610 J	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00725	<0.0100	0.00229	<0.00100	<0.00100	0.0224	<0.00100
	3/31/2021	0.0298	0.0107	0.0177	0.0203	0.124	0.144	<0.00270	<0.000286	0.00137	<0.000195	<0.000500	<0.00100	<0.0100	0.00151	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0133	<0.00200	0.00295	<0.000228	0.000631 J	0.0426	0.0107
	4/8/2021	0.0226	0.0217	0.0210	0.0175	0.0990	0.117	<0.00270	0.000640 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000579 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0						

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																													
Permian EOR - Levey Well Hobbs, New Mexico																													
Well ID	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	1/6/2022	0.0360	0.00656	0.0309	0.0229	0.253	0.274	<0.00270	0.00192	0.00273	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00265	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00488	<0.000228	<0.000623	0.108	0.0273
	1/12/2022	0.0205	0.00174	0.00106	0.0200	0.0949	0.115	<0.00270	<0.000286	0.00132	<0.000195	<0.000500	<0.000259	<0.000318	<0.00214	<0.000183	0.00184	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.000546 J	<0.000228	<0.000623	0.0619	0.00491
	1/19/2022	0.0262	0.00733	0.0305	0.0147	0.229	0.249	<0.00270	0.00104	0.00147	<0.000195	<0.000500	<0.000259	<0.000318	<0.00214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0142	<0.00200	0.00403	<0.000228	<0.000623	0.0435	0.0115
	1/26/2022	0.0331	0.00488	0.0137	0.00718	0.0755	0.0827	<0.00270	<0.00286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000314 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00555	<0.00200	0.00112	<0.000228	<0.000623	0.0145	0.00380
	2/2/2022	Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	0.0184	0.00572	0.0133	0.00676	0.0653	0.0721	<0.00270	<0.00286	0.000510 J	<0.000195	<0.000500	<0.000259	0.00165 J	<0.000214	<0.000183	0.000391 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00544	<0.00200	0.00149	<0.000228	<0.000623	0.0150	0.00409
	2/16/2022	0.0357	0.0270	0.0391	0.0307	0.205	0.244	<0.00270	<0.00286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000884 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0127	<0.00200	0.00392	<0.000228	<0.000623	0.0393	0.0103
	2/25/2022	0.0341	0.00559	0.0206	0.0111	0.134	0.145	<0.00270	<0.0000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000996 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0114	<0.00200	0.00295	<0.000228	<0.000623	0.0386	0.00997
	3/3/2022	0.0370	0.00673	0.0378	0.0160	0.225	0.244	<0.00270	<0.0000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00117	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0152	<0.00200	0.00456	<0.000228	<0.000623	0.0496	0.0126
	3/9/2022	0.0182	0.00790	0.0186	0.0131	0.0857	0.0988	<0.00270	<0.0000286	0.000910 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000683 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00211	<0.000228	<0.000623	0.0240	0.00659
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.0200	0.00793	0.0209	0.0133	0.0947	0.108	<0.00270	<0.0000286	0.000759 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000524 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00753	<0.00200	0.00212	<0.000228	<0.000623	0.0216	0.00583
	3/24/2022	0.0400	0.0151	0.0490	0.0321	0.252	0.284	<0.00270	0.00104	0.00192	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00135	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00487	<0.000228	<0.000623	0.0679	0.0170
	3/31/2022	0.0305	0.0309	0.0274	0.0311	0.267	0.311	<0.00270	0.00102	0.00142	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00138	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00896	<0.00200	0.00203	<0.000228	<0.000623	0.0551	0.0138
	4/6/2022	0.0303	0.0170	0.0140	0.0228	0.191	0.218	<0.00270	0.000939 J	0.00104	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00128	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00534	<0.00200	0.00110	<0.000228	<0.000623	0.0517	0.0136
	4/13/2022	0.0303	0.0271	0.0235	0.0218	0.135	0.157	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000812 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00770	<0.00200	0.00212	<0.000228	<0.000623	0.0368	0.00937
	4/20/2022	0.0246	0.0126	0.0157	0.0171	0.0994	0.117	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000513 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00439	<0.00200	0.000555 J	<0.000228	<0.000623	0.0224	0.00580
	4/28/2022	0.0384	0.0164	0.0617	0.0403	0.292	0.333	<0.00270	0.00162	0.00214	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00176	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0222	<0.00200	0.00675	<0.000228	<0.000623	0.0872	0.0220
	5/5/2022	0.0181	0.00219	0.0172	0.00988	0.110	0.120	<0.00270	0.000629 J	0.000796 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000733 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00608	<0.00200	0.00123	<0.000228	<0.000623	0.0276	0.00751
	5/10/2022	0.0197	0.00422	0.0184	0.0142	0.129	0.143	<0.00270	<0.000286	0.000957 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000953 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00681	<0.00200	0.00180	<0.000228	<0.000623	0.0367	0.00949
	5/19/2022	0.0329	0.00659	0.0505	0.0254	0.367	0.407	<0.00270	0.00159	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0196	<0.00200	0.00593	<0.000228	<0.000623	0.0645	0.0173
	5/26/2022	0.0238	0.00151	0.0208	0.00782	0.105	0.113	<0.00270	0.000780 J	0.00102	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000846 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00912	<0.00200	0.00268	<0.000228	<0.000623	0.0317	0.00846
	6/1/2022	0.0387	0.00639	0.0414	0.0212	0.230	0.253	<0.00270	<0.000286	0.00172	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00147	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0156	<0.00200	0.00395	<0.000228	<0.000623	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
	6/17/2022	0.0214	0.00267	0.0262	0.00984	0.126	0.136	<0.00270	0.00115	0.00161	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00139	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0132	<0.00200	0.00436	<0.000228	<0.000623	0.0490	0.0130
	6/23/2022	0.0235	0.00355	0.0311	0.0139	0.139	0.153	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00120	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0144	<0.00200	0.00410	<0.000228	<0.000623	0.0464	0.0121
	6/29/2022	0.0119	<0.000500	0.0113	0.00209	0.0579	0.0600	<0.00270	<0.000286	0.000827 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000608 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00741	<0.00200	0.00193	<0.000228	<0.000623	0.0213	0.00586



TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

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



TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

Well ID	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	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	6.2
	5/13/2021	0.469 J	239	1.01	0.126	0.756 J	28.5	238	46.1	4.10	72.6	1,150	737	<4.00	-11.9	6.7
	5/19/2021	0.725	566	0.324 J	<0.0391	2.93	21.0	494	91.6	8.14	164	2,160	1,260	<4.00	-5.71	6.3
	5/27/2021	0.579	419	0.499 J	0.137	0.136	16.7	406	73.3	6.47	123	1,370	810	<4.00	1.85	6.5
	6/2/2021	0.712	488	0.303 J	0.128	<0.0293	23.7	447	82.8	7.43	139	2,140	1,120	<4.00	-4.83	6.3
	6/10/2021	0.415 J	247	1.10	0.124	1.38	22.2	273	54.9	4.90	84.8	1,270	669	<4.00	-2.53	6.5
	6/16/2021	0.405 J	227	0.946	0.125	<0.0293	11.5	267	56.0	4.64	84.4	1,500	723	<4.00	-3.70	6.7
	6/22/2021	0.405 J	230	1.00	0.117	1.67	28.9	298	53.1	4.74	80.7	1,230	657	<4.00	0.795	6.7
	6/30/2021	0.398 J	237	1.07	0.140	0.205	23.8	258	51.9	4.32	74.6	1,200	676	<4.00	-5.560	6.9
	7/1/2021	Levey Well Now Running Full Time														
	7/7/2021	0.469 J	305	0.705	0.128	<0.0293	41.3	337	67.2	5.46	96.3	1,780	764	<4.00	-0.751	6.6
	7/14/2021	0.446 J	297	0.753	0.151	0.167	41.6	323	61.9	4.56	87.0	1,200	785	<4.00	-3.73	6.4
	7/20/2021	0.180 J	290	0.223 J	0.0457 J	<0.0293	38.2	317	65.9	5.31	96.1	1,620	854	<4.00	-5.11	6.4
	7/27/2021	0.437 J	281	0.491 J	0.126	1.42	41.3	338	66.9	5.14	95.9	1,240	790	<4.00	-0.522	6.2
	8/5/2021	0.400 J	275	0.565	0.158	<0.0293	43.3	334	68.8	5.00	90.9	1,610	714	<4.00	2.12	6.6
	8/11/2021	0.446 J	261	0.512	0.154	1.81	43.2	298	64.8	4.96	89.8	1,470	764	<4.00	-3.46	6.4
	8/19/2021	0.583	380	0.357 J	0.177	0.694	39.1	336	68.2	6.69	111	2,030	769	<4.00	-3.85	6.6
	8/25/2021	0.483 J	249	0.680	0.125	1.13	41.4	305	59.6	4.65	83.9	1,050	698	<4.00	-0.532	6.6
	9/2/2021	0.418 J	233	0.688	0.110	0.147	20.1	287	52.2	3.98	75.2	1,140	588	<4.00	2.27	7.0
	9/8/2021	0.357 J	257	0.442 J	0.0997 J	1.20	43.4	300	61.8	4.83	87.3	1,360	703	<4.00	-1.15	6.6
	9/14/2021	0.372 J	250	0.511	0.118	1.11	42.3	285	58.7	4.81	81.7	988	730	<4.00	-4.44	6.4
	9/21/2021	0.546	227	0.951	0.224	<0.0293	37.4	313	68.2	5.30	97.5	1,080	610	<4.00	7.72	6.6
	9/29/2021	0.535	248	0.542	0.186	0.164	41.9	302	59.9	4.60	85.4	1,410	765	<4.00	-2.94	6.6
	10/7/2021	0.454 J	235	0.582	1.10	<0.0293	40.5	323	65.5	4.79	88.3	1,310	765	<4.00	0.449	6.6
	10/13/2021	0.459 J	238	0.608	0.198	1.10	40.9	252	52.7	3.97	75.6	1,030	765	<4.00	-10.6	6.7
	10/21/2021	0.470 J	227	0.557	0.143	<0.0293	36.9	238	51.0	3.54	72.5	1,250	722	<4.00	-10.2	6.5
	10/27/2021	0.444 J	238	0.469 J	0.193	0.0910 J	42.5	330	67.2	5.31	94.2	1,290	706	<4.00	3.95	6.7
	11/5/2021	0.367 J	231	1.45	0.220	<0.0293	41.7	328	63.6	5.06	90.7	1,050	657	<4.00	5.76	6.9
	11/11/2021	0.379 J	229	0.594	0.238	<0.0293	36.9	221	48.1	3.36	71.5	1,140	571	<4.00	-5.92	7.0
	11/18/2021	0.560	247	0.397 J	0.176	<0.0293	44.3	276	50.8	4.29	76.4	1,350	698	<4.00	-5.71	6.6
	11/24/2021	0.455 J	232	0.646	0.203	0.718	41.9	253	52.5	4.07	76.6	1,240	546	<4.00	-0.200	6.6
	12/1/2021	0.497 J	233	0.652	0.144	<0.0293	42.0	284	55.9	4.31	82.4	1,040	644	<4.00	-0.133	6.9
	12/8/2021	0.516	230	0.620	0.187	<0.0293	42.5	261	55.8	4.20	82.9	1,200	633	<4.00	-1.56	6.5
	12/16/2021	0.490 J	228	0.528	0.251	<0.0293	42.1	282	55.3	4.13	81.9	1,280	649	<4.00	-0.883	6.4
	12/22/2021	0.480 J	230	0.294 J	0.223	<0.0293	43.3	304	58.5	4.66	85.8	1,270	619	<4.00	3.67	6.4
	12/29/2021	0.476 J	225	0.588	0.224	<0.0293	43.8	300	57.5	4.69	84.9	1,220	657	<4.00	1.62	6.6
	1/6/2022	0.386 J	226	0.500	0.182	<0.0293	42.7	278	52.9	4.11	79.0	1,650	711	<4.00	-4.09	6.4
	1/12/2022	0.438 J	223	0.561	0.178	<0.0293	42.8	254	49.2	3.60	71.9	1,090	633	<4.00	-4.90	6.1
	1/19/2022	0.446 J	223	0.523	0.178	<0.0293	43.6	288	57.2	4.34	80.1	1,780	688	<4.00	-1.41	6.3
	1/26/2022	0.440 J														



TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

Well ID	Date	(mg/l)														%	SU		
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH			
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9			
MW-1	5/26/2020	NA	363	0.913	0.998	1.03	283	NA											7.21
	6/30/2020	0.591	342	<0.500	0.145	<0.100	88.8	401	84.7	6.41	191	1,890	1,290	<4.00	NA	6.75			
	8/20/2020	0.634	339	<0.500	<0.100	<0.100	68.3	401	90.3	5.38	147	1,760	1,210	<4.00	NA	6.30			
	10/23/2020	NA	353	NA															
	11/24/2020	0.629	345	0.309 J	0.161	2.00	73.2	412	82.8	5.61	124	1,630	1,200	<4.00	0.400	6.45			
	12/18/2020	NA	375	NA				414	79.7	5.41	117	1,380	1,160	<4.00	1.30	6.58			
	12/23/2020	0.627	339	0.316 J	0.117	<0.0293	73.2	408	82.5	6.58	119	1,600	1,130	<4.00	2.10	6.56			
	12/30/2020	NA	347	NA													6.37		
	1/6/2021	NA	325	NA													6.51		
	1/12/2021	NA	359	NA										1,160	<4.00	NA	6.42		
	1/20/2021	NA	353	NA										1,160	<4.00	NA	6.34		
	1/27/2021	NA	334	NA										1,010	<4.00	NA	6.44		
	2/3/2021	NA	368	NA										1,130	<4.00	NA	6.38		
	2/10/2021	NA	339	NA										1,160	<4.00	NA	6.45		
	2/24/2021	NA	343	NA										1,070	<4.00	NA	6.45		
	3/4/2021	NA	339	NA										1,070	<4.00	NA	6.38		
	3/10/2021	NA	324	NA										1,020	<4.00	NA	6.34		
	3/17/2021	NA	330	NA										1,020	<4.00	NA	6.16		
	3/25/2021	NA	312	0.367 J	0.129	<0.100	77.5	NA					980	<4.00	NA	6.9			
	3/31/2021	NA	309	0.387 J	0.175	<0.0293	81.3	NA					977	<4.00	NA	6.7			
	4/8/2021	NA	290	0.515	0.0994 J	<0.0293	58.1	NA					933	<4.00	NA	6.5			
	4/15/2021	NA	272	0.583	0.107	<0.0293	54.0	NA					833	<4.00	NA	6.6			
	4/21/2021	NA	299	0.369 J	0.135	<0.0293	52.7	NA					927	<4.00	NA	6.5			
	4/28/2021	NA	315	0.315 J	0.119	<0.0293	57.8	NA					994	<4.00	NA	6.5			
	5/5/2021	NA	317	0.358 J	0.135	<0.0293	68.5	NA					1,020	<4.00	NA	6.5			
	5/13/2021	NA	270	0.492 J	0.125	0.729 J	55.6	NA					819	<4.00	NA	6.8			
	5/19/2021	NA	324	0.335 J	<0.0391	2.58	65.0	NA					1,070	<4.00	NA	6.5			
	5/27/2021	NA	325	0.380 J	0.128	0.148	70.3	NA					971	<4.00	NA	6.3			
	6/2/2021	NA	315	0.305 J	0.146	<0.0293	72.8	NA					979	<4.00	NA	6.5			
	6/10/2021	NA	295	0.561	0.130	1.44	64.7	NA					768	<4.00	NA	6.6			
	6/16/2021	NA	320	0.478 J	0.127	0.243	59.1	NA					811	<4.00	NA	6.7			
	6/22/2021	NA	311	0.478 J	0.119	1.65	56.9	NA					790	<4.00	NA	6.8			
	6/30/2021	NA	308	0.561	0.145	0.168	64.2	NA					813	<4.00	NA	6.7			
	7/1/2021		Levey Well Now Running Full Time																
	7/7/2021	NA	325	0.547	0.127	<0.0293	75.9	NA					761	<4.00	NA	6.8			
	7/14/2021	NA	360	0.418 J	0.134	0.0880 J	112	NA					931	<4.00	NA	6.8			
	7/20/2021	NA	324	0.138 J	0.0457 J	<0.0293	81.5	NA					750	<4.00	NA	6.7			
	7/27/2021	NA	352	0.340 J	0.148	1.22	82.8	NA					786	<4.00	NA	6.7			
	8/5/2021	NA	336	0.426 J	0.117	<0.0293	79.0	NA					695	<4.00	NA	6.9			
	8/11/2021	NA	326	0.342 J	0.153	1.48	85.5	NA					735	<4.00	NA	6.6			
	8/19/2021	NA	334	0.227 J	0.149	1.36	81.9	NA					810	<4.00	NA	6.8			
	8/25/2021	NA	328	0.395 J	0.132	0.947 J	76.5	NA					809	<4.00	NA	6.8			
	9/2/2021	NA	325	0.311 J	0.105	<0.0293	74.7	NA					755	<4.00	NA	6.8			
	9/8/2021	NA	272	0.442 J	0.103	0.782 J	64.5	NA					584	<4.00	NA	6.9			
	9/14/2021	NA	332	0.276 J	0.103	0.776 J	98.4	NA					660	<4.00	NA	7.0			
	9/21/2021	NA	203	0.896	0.186	<0.0293	32.4	NA					419	<4.00	NA	6.9			
	9/29/2021	NA	232	0.659	0.168	0.0819 J	40.1	NA					505	<4.00	NA	6.9			
	10/7/2021	NA	253	0.626	0.186	<0.0293	58.2	NA					567	<4.00	NA	6.9			
	10/13/2021	NA	268	0.659	0.178	<0.0293	62.9	NA					564	<4.00	NA	8.1			
	10/21/2021	NA	293	0.409 J	0.144	<0.0293	81.1	NA					591	<4.00	NA	7.1			
	11/5/2021	NA	282	0.631	0.191	<0.0293	77.1	NA					571	<4.00	NA	7.0			
	11/11/2021	NA	311	0.309 J	0.258	<0.0293	89.9	NA					536	<4.00	NA	7.1			
	11/18/2021	NA	172	0.741	0.151	<0.0293	23.1	NA					314	<4.00	NA	7.4			
	11/24/2021	NA	267	0.429 J	0.220	0.549	81.4	NA					502	<4.00	NA	6.8			
	12/1/2021	NA	222	0.596	0.141	<0.0293	61.0	NA					390	<4.00	NA	7.3			
	12/8/2021	NA	226	0.358 J	0.162	<0.0293	66.0	NA					484	<4.00	NA	6.9			
	12/16/2021	NA	174	0.504	0.143	<0.0293	49.9	NA					398	<4.00	NA	6.9			
	12/22/2021	NA	163	0.517	0.240	<0.0293	40.2	NA					312	<4.00	NA	7.1			
	12/29/2021	NA	142	0.591	0.205	0.295	42.2	NA					302	<4.00	NA	7.3			
	1/6/2022	NA	138	0.471 J	0.180	<0.0293	43.2	NA					335	<4.00	NA	7.0			
	1/12/2022	NA	149	0.491 J	0.154	0.0428 J	42.1	NA					326	<4.00	NA	6.7			
	1/19/2022	NA	141	0.532	0.145	0.227	45.1	NA					324	<4.00	NA	7.0			
	1/26/2022	NA	142	0.548	0.177	0.150	44.7	NA					282	<4.00	NA	7.1			
	2/2/2022		Unable to Sample due to Incilment Weather. Booster Pump for Levey Well Damaged by Freeze.																
	2/8/2022	NA	189	0.631	0.0688 J	0.358	49.6	NA					380	<4.00	NA	6.9			
	2/16/2022	NA	151	0.712	0.0561 J	0.344	41.5	NA					384	<4.00	NA	7.1			
	2/25/2022	NA	171	0.739	0.125	0.156	50.3	NA					342	<4.00	NA	7.1			
	3/3/2022	NA	158	0.531	0.198	0.181	45.9	NA					360	<4.00	NA	6.9			
	3/9/2022	NA	148	0.454 J	0.170	<0.0293	45.4	NA					323	<4.00	NA	7.2			
	3/14/2022		Booster Pump for Levey Well Repaired and Back on Running Full Time.																
	3/16/2022	NA	145	0.546	0.147	<0.0293	38.1	NA					339	<4.00	NA	7.0			
	3/24/2022	NA	147	0.610	<0.0391	<0.0293	42.9	NA					297	<4.00	NA	7.2			
	3/31/2022	NA	143	0.568	0.164	<0.0293	40.4	NA					275	<4.00	NA	7.1			
4/6/2022	NA	133	0.677	0.186	<0.0293	39.7	NA					262	<4.00	NA	7.1				
4/13/2022	NA	129	0.767	<0.0391	<0.0293	40.9	NA					259	<4.00	NA	7.6				
4/20/2022	NA	173	0.574	0.152	0.176	42.4	NA					362	<4.00	NA	7.0				
4/28/2022	NA	136	0.608	0.0700 J	0.0717 J	41.7	NA					300	<4.00	NA	7.5				
5/5/2022	NA	118	0.746	<0.0391	1.75	41.1	NA					253	<4.00	NA	7.2				
5/10/2022	NA	116	0.709	0.0815 J	<0.0293	43.9	NA					250	<4.00	NA	7.2				
5/19/2022	NA	106	0.643	0.0743 J	0.199	41.0	NA					262	<4.00	NA	7.1				
5/26/2022	NA	98.7	0.720	0.0777 J	0.809	44.7	NA					256	<4.00	NA	7.2				
6/1/2022	NA	100	0.690	0.0629 J	<0.0293	46.4	NA					240	<4.00	NA	7.4				
6/9/2022	NA	99.9	0.743	<0.0391	<0.0293	46.6	NA					246	<4.00	NA	7.1				
6/17/2022	NA	83.5	0.710	0.146	0.275	47.9	NA					253	<4.00	NA	7.3				
6/23/2022	NA	83.9	0.616	0.238	<0.0293	47.7	NA					258	<4.00	NA	7.2				
6/29/2022	NA	84.8	0.644	0.199	0.556	48.0	NA					264	<4.00	NA	7.2				



TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

Well ID	Date	(mg/l)														%	SU		
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH			
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9			
MW-2	5/26/2020	NA	106	0.341 J	1.920	0.639	120	NA											6.32
	6/30/2020	0.535	115	<0.500	1.13	0.656	111	478	59.6	6.66	102	1,320	1,320	<4.00	NA	6.36			
	8/20/2020	0.603	150	<0.500	1.10	0.439	122	559	73.5	7.46	102	1,700	1,350	<4.00	NA	6.01			
	10/23/2020	NA	107	NA															
	11/24/2020	0.565	180	0.172 J	1.08	0.557	136	841	85.5	12.8	116	1,670	1,450	<4.00	15.4	6.30			
	12/18/2020	NA	153	NA				494	64.9	6.63	98.0	1,410	1,380	<4.00	3.20	6.29			
	12/23/2020	0.621	165	0.179 J	1.11	0.639	126	472	65.7	5.96	101	1,810	1,430	<4.00	0.300	6.27			
	12/30/2020	NA	153	NA													6.15		
	1/6/2021	NA	124	NA													6.24		
	1/12/2021	NA	141	NA										1,350	<4.00	NA	6.20		
	1/20/2021	NA	133	NA										1,360	<4.00	NA	6.12		
	1/27/2021	NA	140	NA										1,360	<4.00	NA	6.24		
	2/3/2021	NA	178	NA										1,390	<4.00	NA	6.17		
	2/10/2021	NA	133	NA										1,380	<4.00	NA	6.19		
	2/24/2021	NA	146	NA										1,370	<4.00	NA	6.17		
	3/4/2021	NA	166	NA										1,380	<4.00	NA	6.07		
	3/10/2021	NA	175	NA										1,390	<4.00	NA	6.14		
	3/17/2021	NA	163	NA										1,400	<4.00	NA	5.87		
	3/25/2021	NA	161	0.183 J	0.835	0.425	119	NA					1,420	<4.00	NA	6.5			
	3/31/2021	NA	102	0.299 J	0.714	1.13	99.9	NA					1,330	<4.00	NA	6.4			
	4/8/2021	NA	157	0.223 J	0.784	0.549	122	NA					1,430	<4.00	NA	6.2			
	4/15/2021	NA	136	0.255 J	0.711	0.683	115	NA					1,380	<4.00	NA	6.1			
	4/21/2021	NA	114	0.157 J	0.650	0.856	101	NA					1,340	<4.00	NA	6.1			
	4/28/2021	NA	155	0.178 J	0.692	0.511	118	NA					1,380	<4.00	NA	6.2			
	5/5/2021	NA	122	0.198 J	0.704	0.609	105	NA					1,350	<4.00	NA	6.3			
	5/13/2021	NA	104	0.199 J	0.686	1.02	98.3	NA					1,320	<4.00	NA	6.3			
	5/19/2021	NA	142	0.171 J	0.633	0.435	120	NA					1,370	<4.00	NA	6.2			
	5/27/2021	NA	147	0.206 J	0.689	0.889	120	NA					1,260	<4.00	NA	6.5			
	6/2/2021	NA	119	0.168 J	0.647	0.549	103	NA					1,250	<4.00	NA	6.2			
	6/10/2021	NA	151	0.252 J	0.714	2.77	123	NA					1,260	<4.00	NA	6.1			
	6/16/2021	NA	118	0.205 J	0.613	1.36	104	NA					1,208	<4.00	NA	6.5			
	6/22/2021	NA	122	0.171 J	0.593	0.969	105	NA					1,260	<4.00	NA	6.5			
	6/30/2021	NA	111	0.417 J	0.633	1.37	102	NA					1,230	<4.00	NA	6.4			
	7/1/2021		Levey Well Now Running Full Time																
	7/7/2021	NA	110	0.257 J	0.543	0.713	98.2	NA					1,120	<4.00	NA	6.4			
	7/14/2021	NA	187	0.233 J	0.752	0.797	124	NA					1,350	<4.00	NA	6.4			
	7/20/2021	NA	123	0.132 J	0.460	0.659	107	NA					1,280	<4.00	NA	6.3			
	7/27/2021	NA	113	0.134 J	0.607	0.516 J	100	NA					1,250	<4.00	NA	6.4			
	8/5/2021	NA	120	0.189 J	0.660	0.552	103	NA					1,200	<4.00	NA	6.5			
	8/11/2021	NA	115	0.181 J	0.624	3.02	101	NA					1,300	<4.00	NA	6.3			
	8/19/2021	NA	122	0.104 J	0.630	1.73	104	NA					1,290	<4.00	NA	6.4			
	8/25/2021	NA	122	0.191 J	0.639	0.603	103	NA					1,270	<4.00	NA	6.5			
	9/2/2021	NA	110	<0.100	0.536	0.595	98.1	NA					1,320	<4.00	NA	6.4			
	9/8/2021	NA	105	<0.100	0.540	0.590	97.3	NA					1,280	<4.00	NA	6.4			
	9/14/2021	NA	124	<0.100	0.542	0.386	107	NA					1,270	<4.00	NA	6.4			
	9/21/2021	NA	90.5	0.426 J	0.638	1.04	89.1	NA					1,250	<4.00	NA	6.3			
	9/29/2021	NA	133	0.245 J	0.631	0.982	117	NA					1,300	<4.00	NA	6.4			
	10/7/2021	NA	108	0.201 J	0.581	0.564	96.6	NA					1,280	<4.00	NA	6.4			
	10/13/2021	NA	178	0.140 J	0.734	0.507	131	NA					1,320	<4.00	NA	6.5			
	10/21/2021	NA	102	0.133 J	0.635	0.787	93.3	NA					1,270	<4.00	NA	6.5			
	11/5/2021	NA	141	0.363 J	<0.0391	0.454	108	NA					1,250	<4.00	NA	6.6			
	11/11/2021	NA	115	<0.100	0.677	0.374	97.6	NA					1,240	<4.00	NA	6.5			
	11/18/2021	NA	103	<0.100	0.600	1.28	98.1	NA					1,140	<4.00	NA	6.6			
	11/24/2021	NA	163	<0.500	0.680	0.539	127	NA					1,500	<4.00	NA	6.3			
	12/1/2021	NA	120	0.148 J	0.604	0.511	103	NA					1,240	<4.00	NA	6.9			
	12/8/2021	NA	188	<0.100	0.759	0.684	123	NA					1,250	<4.00	NA	6.3			
	12/16/2021	NA	134	<0.100	0.529	<0.0293	113	NA					1,180	<4.00	NA	6.3			
	12/22/2021	NA	163	<0.100	0.670	0.462	122	NA					1,280	<4.00	NA	6.4			
	12/29/2021	NA	210	<0.100	1.02	0.415	115	NA					1,280	<4.00	NA	6.3			
	1/6/2022	NA	106	<0.100	0.559	0.746	97.5	NA					1,300	<4.00	NA	6.4			
	1/12/2022	NA	73.9	0.288 J	0.506	1.47	92.2	NA					1,150	<4.00	NA	6.2			
	1/19/2022	NA	120	<0.100	0.591	0.757	104	NA					1,290	<4.00	NA	6.1			
	1/26/2022	NA	120	<0.100	0.592	0.608	100	NA					1,270	<4.00	NA	6.1			
	2/2/2022		Unable to Sample due to Incimient Weather. Booster Pump for Levey Well Damaged by Freeze.																
	2/8/2022	NA	148	0.156 J	0.683	1.03	125	NA					1,290	<4.00	NA	6.1			
	2/16/2022	NA	186	0.409 J	0.809	0.338	113	NA					1,320	<4.00	NA	6.2			
	2/25/2022	NA	133	0.704	0.536	0.647	154	NA					1,280	<4.00	NA	6.3			
	3/3/2022	NA	126	<0.100	0.776	0.992	112	NA					1,360	<4.00	NA	6.1			
	3/9/2022	NA	167	<0.100	0.789	2.12	133	NA					1,330	<4.00	NA	6.2			
	3/14/2022		Booster Pump for Levey Well Repaired and Back on Running Full Time.																
	3/16/2022	NA	165	<0.100	0.890	1.47	135	NA					1,350	<4.00	NA	6.2			
	3/24/2022	NA	140	<0.100	<0.0391	0.389	120	NA					1,320	<4.00	NA	6.3			
	3/31/2022	NA	150	<0.100	<0.0391	1.65	106	NA					1,340	<4.00	NA	6.3			
4/6/2022	NA	130	0.175 J	0.619	1.60	111	NA					1,360	<4.00	NA	6.2				
4/13/2022	NA	135	0.271 J	0.589	1.67	108	NA					1,380	<4.00	NA	6.5				
4/20/2022	NA	198	0.174 J	0.966	0.722	121	NA					1,330	<4.00	NA	6.4				
4/28/2022	NA	156	0.172 J	0.711	0.434	118	NA					1,380	<4.00	NA	6.4				
5/5/2022	NA	116	0.229 J	0.586	11.5	112	NA					1,330	<4.00	NA	6.3				
5/10/2022	NA	134	0.230 J	0.548	1.83	120	NA					1,320	<4.00	NA	6.3				
5/19/2022	NA	133	0.116 J	<0.0391	0.373	118	NA					1,380	<4.00	NA	6.2				
5/26/2022	NA	107	0.196 J	0.392	1.14	104	NA					1,320	<4.00	NA	6.0				
6/1/2022	NA	130	0.107 J	0.481	1.47	116	NA					1,340	<4.00	NA	6.3				
6/9/2022	NA	103	<0.100	0.330	0.236	103	NA					1,320	<4.00	NA	6.2				
6/17/2022	NA	99.0	0.213 J	0.395	0.702	102	NA					1,290	<4.00	NA	6.4				
6/23/2022	NA	109	<0.100	0.494	5.21	107	NA					1,270	<4.00	NA	6.3				
6/29/2022	NA	82.6	0.111 J	0.351	0.827	89.7	NA					1,330	<4.00	NA	6.2				



TABLE 3 - GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY									
Permian EOR - South Hobbs G/SA Unit Hobbs, New Mexico									
Well ID	Date	(mg/l)						°C	
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH MRO	Total TPH	Temperature	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE	
MW-1	5/26/2020	<0.495	163	<0.943	1.48	<0.910	1.48	22.9	
	6/30/2020	<5.00	648	<2.34	<2.34	<2.34	<2.34	21.9	
	8/20/2020	<5.00	596	2.35	3.18	<2.26	5.53	23.7	
	11/24/2020	<0.495	756	<0.907	<0.838	<0.838	<0.8380	19.1	
	12/18/2020	<0.495	432	<0.909	<0.840	<0.840	<0.840	15.8	
	12/23/2020	<0.495	553	<0.895	1.81 J	<0.827	1.81 J	15.5	
	12/30/2020	<0.495	1,170	<0.917	<0.847	<0.847	<0.847	13.1	
	1/6/2021	<0.495	585	<0.897	<0.829	<0.829	<0.829	12.7	
	1/12/2021	<0.495	731	<0.891	<0.823	<0.823	<0.823	14.6	
	1/20/2021	0.600 J	667	<0.889	<0.821	<0.821	<0.821	17.6	
	1/27/2021	0.800 J	668	<0.909	<0.840	<0.840	<0.840	18.0	
	2/3/2021	<0.495	699	<0.907	<0.838	<0.838	<0.838	20.6	
	2/10/2021	1.20 J	423	1.66 J	<0.828	<0.828	1.66 J	14.1	
	2/24/2021	0.600 J	448	<0.884	<0.817	<0.817	<0.817	18.0	
	3/4/2021	<0.495	515	3.04	1.03 J	<0.846	4.07	18.8	
	3/10/2021	1.20 J	499	<0.878	<0.811	<0.811	<0.811	18.6	
	3/17/2021	<0.495	378	<0.886	<0.819	<0.819	<0.819	19.1	
	3/25/2021	<0.495	333	17.2	1.00 J	<0.867	18.2	20.2	
	3/31/2021	<0.495	526	<0.893	<0.825	<0.825	<0.825	18.4	
	4/8/2021	<0.495	364	2.57 J	1.55 J	<0.867	4.12 J	18.9	
	4/15/2021	<0.495	418	<0.887	<0.887	1.72 J	1.72 J	20.5	
	4/21/2021	<0.495	415	<0.898	2.05 J	<0.867	2.05 J	18.8	
	4/28/2021	<0.495	689	<0.890	1.19 J	<0.859	1.19 J	18.9	
	5/5/2021	<0.495	647	<0.890	<0.890	<0.859	<0.890	18.8	
	5/13/2021	<0.495	259	<0.893	<0.893	<0.862	<0.893	19.0	
	5/19/2021	<0.495	679	<0.893	<0.893	<0.862	<0.893	21.5	
	5/27/2021	<0.495	973	<0.923	<0.923	<0.891	<0.923	20.6	
	6/2/2021	<0.495	619	<0.918	<0.918	<0.886	<0.918	18.1	
	6/10/2021	<0.495	385	<0.915	<0.915	<0.883	<0.915	22.0	
	6/16/2021	<0.495	323	<0.926	<0.926	<0.894	<0.926	18.2	
	6/22/2021	<0.495	250	<0.938	<0.938	<0.905	<0.938	22.1	
	6/30/2021	<0.495	324	<0.923	<0.923	<0.891	<0.923	21.0	
	7/1/2021	Levey Well Now Running Full Time							
	7/7/2021	<0.495	241	<0.901	<0.901	<0.869	<0.901	18.4	
	7/14/2021	<0.495	295	<0.991	<0.957	<0.991	<0.991	19.0	
	7/20/2021	<0.495	321	<0.938	<0.938	<0.905	<0.938	19.8	
	7/27/2021	<0.495	321	<0.906	<0.906	<0.875	<0.906	22.0	
	8/5/2021	<0.495	196	<0.950	<0.950	<0.917	<0.950	21.9	
	8/11/2021	<0.495	369	<0.932	<0.932	<0.900	<0.932	19.9	
	8/19/2021	<0.495	457	<0.950	<0.950	<0.917	<0.950	20.8	
	8/25/2021	<0.495	477	<0.918	<0.918	<0.886	<0.918	20.0	
	9/2/2021	<0.495	416	<0.935	<0.935	<0.902	<0.935	20.6	
	9/8/2021	<0.495	280	<0.953	<0.953	<0.920	<0.953	21.4	
	9/14/2021	<0.495	289	<0.932	0.978 J	<0.900	0.978 J	19.3	
	9/21/2021	1.00 J	105	<0.918	<0.918	<0.886	<0.918	18.0	
	9/29/2021	<0.495	127	<0.998	<0.998	<0.963	<0.998	18.7	
	10/7/2021	<0.495	143	<0.923	<0.923	<0.891	<0.923	18.0	
	10/13/2021	<0.495	8.85	<0.950	<0.950	<0.917	<0.950	20.7	
	10/21/2021	<0.495	434	<0.918	<0.918	<0.886	<0.918	19.9	
	11/5/2021	<0.495	114	<1.03	<1.03	<0.993	<1.03	22.9	
	11/11/2021	<0.495	563	<0.923	<0.923	<0.891	<0.923	19.3	
	11/18/2021	<0.495	24.9	1.05 J	<0.969	<0.935	1.05 J	19.0	
	11/24/2021	<5.00	159	<4.70	<4.70	<4.70	<4.70	19.7	
	12/1/2021	<0.495	39.0	<0.935	<0.935	<0.902	<0.935	19.4	
	12/8/2021	<0.495	122	<0.929	<0.929	<0.897	<0.929	18.1	
	12/16/2021	<0.495	69.3	<0.962	<0.962	<0.929	<0.962	18.0	
	12/22/2021	<0.495	49.5	1.34 J	<0.941	<0.908	1.34 J	21.5	
	12/29/2021	<0.495	50.2	<0.935	<0.935	<0.902	<0.935	18.1	
	1/6/2022	<0.495	67.0	<0.932	<0.932	<0.900	<0.932	18.0	
	1/12/2022	<0.495	130	0.960 J	1.06 J	<0.900	2.02 J	21.7	
1/19/2022	<0.495	56.4	<0.912	<0.912	<0.880	<0.912	18.0		
1/26/2022	<0.495	44.7	<0.898	<0.898	<0.867	<0.898	18.8		
2/2/2022	Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.								
2/8/2022	<0.495	95.7	<0.895	<0.895	<0.864	<0.895	20.8		
2/16/2022	<0.495	61.0	<0.877	<0.877	<0.846	<0.877	18.7		
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									
Permian EOR - South Hobbs G/SA Unit Hobbs, New Mexico									
Well ID	Date	(mg/l)						°C	
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH MRO	Total TPH	Temperature	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE	
MW-2	5/26/2020	<0.495	923	2.10	1.07 J	<0.900	6.16	23.1	
	6/30/2020	<5.00	1,290	<2.32	<2.32	<2.32	<2.32	22.1	
	8/20/2020	<5.00	1,150	2.75	3.29	<2.26	6.02	23.0	
	11/24/2020	<0.495	1,300	1.73 J	2.17 J	<0.835	3.900	19.1	
	12/18/2020	0.600 J	958	1.34 J	0.915 J	<0.824	2.26 J	15.1	
	12/23/2020	<0.495	1,090	1.61 J	1.12 J	<0.837	2.73	15.6	
	12/30/2020	<0.495	1,090	<0.893	<0.825	<0.825	<0.825	12.1	
	1/6/2021	<0.495	1,240	1.99 J	<0.824	<0.824	1.99 J	13.1	
	1/12/2021	11.2	1,450	1.64 J	<0.833	<0.833	1.64 J	13.9	
	1/20/2021	9.60	1,390	<0.907	<0.838	<0.838	<0.838	18.2	
	1/27/2021	15.0	1,600	1.31 J	<0.834	<0.834	1.31 J	13.4	
	2/3/2021	<0.495	1,030	0.955 J	1.15 J	<0.813	2.11 J	20.9	
	2/10/2021	<0.495	915	2.08	<0.746	<0.746	2.08	11.5	
	2/24/2021	<0.495	793	1.01 J	<0.832	<0.832	1.01 J	19.4	
	3/4/2021	<0.495	1,030	1.74 J	<0.819	<0.819	1.74 J	18.2	
	3/10/2021	<0.495	1,010	<0.893	<0.825	<0.825	<0.825	18.5	
	3/17/2021	<0.495	970	2.33	<0.835	<0.835	2.33	19.5	
	3/25/2021	<0.495	653	1.50 J	1.16 J	<0.857	2.66 J	20.2	
	3/31/2021	<0.495	1,110	<0.941	<0.941	<0.908	<0.941	18.3	
	4/8/2021	<0.495	1,010	2.30 J	1.01 J	<0.875	3.31 J	18.9	
	4/15/2021	<0.495	2,200	2.49 J	0.999 J	1.70 J	5.19	20.1	
	4/21/2021	<0.495	1,230	1.01 J	0.913 J	<0.856	1.92 J	18.9	
	4/28/2021	<0.495	1,100	2.54 J	1.19 J	<0.872	3.73 J	19.0	
	5/5/2021	<0.495	1,350	2.09 J	<0.890	<0.859	2.09 J	18.8	
	5/13/2021	<0.495	1,320	1.18 J	<0.906	<0.875	1.18 J	19.6	
	5/19/2021	<0.495	1,730	1.46 J	<0.901	<0.869	1.46 J	19.8	
	5/27/2021	<0.495	798	<0.920	<0.920	<0.888	<0.920	20.8	
	6/2/2021	<0.495	1,580	2.01 J	<0.895	<0.864	2.01 J	18.1	
	6/10/2021	<0.495	2,010	1.46 J	<0.882	<0.851	1.46 J	22.0	
	6/16/2021	<0.495	810	0.963 J	<0.826	<0.797	0.963 J	18.0	
	6/22/2021	<0.495	795	1.18 J	<0.947	<0.914	1.18 J	22.2	
	6/30/2021	<0.495	975	1.21 J	<0.893	<0.862	1.21 J	20.3	
	7/1/2021	Levey Well Now Running Full Time							
	7/7/2021	<0.495	889	1.62 J	<0.906	<0.875	1.62 J	18.3	
	7/14/2021	<0.495	1,080	<0.965	<0.965	<0.932	<0.965	19.3	
	7/20/2021	<0.495	1,170	1.16 J	<0.898	<0.867	1.16 J	19.8	
	7/27/2021	<0.495	950	1.03 J	<0.906	<0.875	1.03 J	22.3	
	8/5/2021	<0.495	778	<0.909	<0.909	<0.877	<0.909	22.1	
	8/11/2021	<0.495	1,040	1.46 J	<0.887	<0.856	1.46 J	19.7	
	8/19/2021	<0.495	2,010	1.93 J	<0.959	<0.926	1.93 J	20.7	
	8/25/2021	<0.495	1,400	1.01 J	<0.932	<0.900	1.01 J	19.2	
	9/2/2021	<0.495	1,830	3.03 J	2.11 J	<0.920	5.14	21.4	
	9/8/2021	<0.495	1,570	1.70 J	<0.932	<0.900	1.70 J	20.5	
	9/14/2021	<0.495	1,240	1.93 J	1.01 J	<0.917	2.94 J	19.4	
	9/21/2021	<0.495	1,260	1.33 J	<0.941	<0.908	1.33 J	18.0	
	9/29/2021	<0.495	1,040	1.60 J	<1.19	<1.15	1.60 J	18.5	
	10/7/2021	<0.495	1,020	1.45 J	<0.988	<0.954	1.45 J	18.0	
	10/13/2021	<0.495	834	1.56 J	<0.935	<0.902	1.56 J	20.6	
	10/21/2021	<0.495	2,420	1.64 J	<0.918	<0.886	1.64 J	19.8	
	11/5/2021	<0.495	628	1.39 J	<0.965	<0.932	1.39 J	22.8	
	11/11/2021	<0.495	4,500	2.27 J	<0.985	<0.950	2.27 J	18.5	
	11/18/2021	<0.495	574	2.56 J	<0.923	<0.891	2.56 J	19.5	
	11/24/2021	<5.00	1,500	2.34 J	<4.59	<4.59	2.34 J	19.1	
	12/1/2021	<0.495	313	1.69 J	<0.912	<0.880	1.69 J	19.2	
	12/8/2021	<0.495	1,260	1.86 J	<0.932	<0.900	1.86 J	18.9	
	12/16/2021	<0.495	957	1.15 J	<0.947	<0.914	1.15 J	18.0	
	12/22/2021	<0.495	1,020	1.95 J	<0.944	<0.911	1.95 J	21.6	
	12/29/2021	<0.495	1,250	1.15 J	<0.935	<0.902	1.15 J	18.0	
	1/6/2022	<0.495	1,030	1.31 J	<0.915	<0.883	1.31 J	18.2	
	1/12/2022	<0.495	1,450	3.63 J	1.34 J	<1.00	4.97 J	22.0	
1/19/2022	<0.495	1,420	2.83 J	<0.915	<0.883	2.83 J	18.2		
1/26/2022	<0.495	2,020	<0.923	<0.923	<0.891	<0.923	18.8		
2/2/2022	Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.								
2/8/2022	<0.495	2,050	1.31 J	<0.909	<0.877	1.31 J	20.7		
2/16/2022	<0.495	1,670	0.974 J	<0.864	<0.834	0.974 J	18.3		
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		

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

Permian EOR - Levey Well
Hobbs, New Mexico

Well ID	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	<5.11	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	22.2	<9.82	<9.82	<7.04	<17.3	<8.67	17,500
	1/25/2021	1213	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	2.01	<0.810	<0.793	4.98	<0.867	<0.982	<1.12	<1.70	1.44	3.20	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	<1.36	<0.590	<1.88	<1.09	<1.36	1.14	1.29	<0.704	<1.73	<0.867	<826
	1/28/2021	1316	14,800	<0.639	2.96	246	22.5	42.5	1,770	<0.810	<0.793	2,410	53.8	298	<1.12	2.03	1,220	2,890	150	<0.694	101	2,340	53.2	<0.819	<33.0	438	<0.851	72.6	<0.590	95.7	<1.09	<1.07	445	375	<0.704	246	147	61,100
	2/10/2021	1300	1,140	<12.8	<15.5	181	<8.26	<20.6	10,800	<16.2	<15.9	<23.8	44.2	426	<22.5	<19.8	4,040	14,000	92.4	<13.9	<102	79.0	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	66.3	<21.8	<21.4	334	584	<14.1	361	218	315,000
	2/24/2021	1045	<2.97	<0.639	<0.776	161	<0.413	<1.03	4,510	<0.810	9.83	<1.19	88.4	491	<1.12	<0.989	2,200	5,610	249	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	5.47	<0.590	101	<1.09	1.14	218	305	<0.704	633	388	114,000
	3/4/2021	1402	375	<3.19	<3.88	67.9	<2.07	<5.15	2,620	<4.05	<3.96	88.6	56.4	<4.91	<5.62	<4.95	847	4,690	176	<3.47	<25.6	72.0	<25.6	<4.09	22.8	<15.4	<4.25	<6.79	<2.95	49.3	<5.44	<5.36	1,460	913	<3.52	533	198	83,400
	3/10/2021	1050	<2.97	<0.639	<0.776	71.0	<0.413	<1.03	3,300	<0.810	<0.793	<1.19	61.1	1,070	1.26	<0.989	990	4,120	205	<0.694	<5.11	54.8	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	55.4	<1.09	<1.07	947	825	<0.704	516	249	120,000
	3/17/2021	1135	806	<0.639	<0.776	95.6	<0.413	<1.03	3,160	<0.810	<0.793	50.2	63.3	444	1.38	<0.989	1,240	4,550	128	<0.694	<5.11	139	<5.12	<0.819	<3.30	46.5	<0.851	<1.36	<0.590	101	<1.09	<1.07	332	313	<0.704	432	179	88,800
	3/25/2021	1111	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	11,700	<0.810	<0.793	41.3	65.9	<0.982	<1.12	<0.989	2,500	12,800	157	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	67.4	<1.09	<1.07	424	359	<0.704	382	205	256,000
	3/31/2021	1055	1,880	<0.639	<0.776	<0.622	<0.413	<1.03	22,300	<0.810	<0.793	96.3	78.0	185	<1.12	<0.982	4,420	24,000	150	<0.694	<5.11	244	<5.12	<0.819	<3.30	<3.07	<0.851	17.5	<0.590	73.1	9.57	<1.07	292	265	<0.704	352	193	305,000
	4/8/2021	1205	2,350	843	<311	<249	<165	<412	30,500	<324	<317	2,830	<347	736	<450	<396	<327	64,500	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	1,470	<340	<543	<236	<753	<435	<429	453	420	<282	737	<347	574,000
	4/15/2021	1228	1,200	<12.8	<15.5	97.7	<8.26	<20.6	41,000	<16.2	<15.9	98.0	91.9	447	<22.5	<19.8	4,950	98,000	134	<13.9	<102	206	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	101	<21.8	<21.4	197	198	<14.1	620	190	438,000
	4/21/2021	1340	639	<0.639	<0.776	<0.622	<0.413	<1.03	2,390	<0.810	<0.793	234	72.4	309	<1.12	<0.989	969	5,710	166	<0.694	<5.11	280	<5.12	<0.819	<3.30	127	<0.851	<1.36	<0.590	48.2	<1.09	<1.07	216	447	<0.704	296	225	<826
	4/28/2021	1215	1,210	<12.8	<15.5	134	<8.26	<20.6	6,650	<16.2	<15.9	343	129	1,540	<22.5	<19.8	<16.4	13,200	264	<13.9	<102	229	<102	<16.4	<66.0	143	<17.0	<27.2	<11.8	95.3	<21.8	<21.4	1,050	761	<14.1	954	313	261,000
	5/5/2021	1235	371	<12.5	<15.5	12.6	<8.26	<20.6	844	<16.2	<15.9	326	27.2	88.3	<22.5	<19.8	326	1,120	58.0	<13.9	<102	93.8	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	179	142	<14.1	185	65.0	273,000
	5/13/2021	1320	1,220	<12.8	<15.5	39.8	<8.26	<20.6	6,130	29.9	<15.9	456	88.4	545	<22.5	<19.8	2,300	7,300	228	<13.9	<102	226	<102	<16.4	<66.0	219	<17.0	<27.2	<11.8	62.5	<21.8	<21.4	1,230	756	<14.1	668	251	205,000
	5/19/2021	1445	1,700	<1.28	<1.55	<1.24	<0.826	<2.06	6,680	<1.62	<1.59	226	76.7	306	<2.25	<1.98	2,010	12,300	179	<1.39	122	200	<10.2	<1.64	<6.60	205	<1.70	<2.72	<1.18	50.5	<2.18	3.46	520	550	<14.1	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	&lt																					

TABLE 4 - AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																																							
Permian EOR - Levey Well																																							
Hobbs, New Mexico																																							
Well ID	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																																				
	1/6/2022	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	
		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																																				
	1/19/2022	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	
		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																																				
	2/8/2022	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	
		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	<9.99	290	610	<9.83	<6.94	<51.1	<36.9	<51.2	<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																																				
	2/25/2022	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	
		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	<40.5	<39.6	684	<43.4	<49.1	<56.2	<49.5	263	2,520	<49.2	38.5	<256	<184	<256	<40.9	<165	6,370	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	<41,300	
		1526	Vacuum Recovery Event Terminated																																				
	3/9/2022	1635	<2.97	1.30	<0.776	<0.622	1.53	<1.03	76.8	<0.810	<0.793																												

TABLE 4 - AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																																						
Permian EOR - Levey Well																																						
Hobbs, New Mexico																																						
Well ID	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																																			
		1218	130	1.41	6.83	31.0	15.5	<1.03	3,090	<0.810	<0.793	32.2	3.73	7.02	<1.12	<0.989	6,260	4,830	1.60	<0.694	<5.11	193	<5.12	<0.819	<3.30	403	<0.851	<1.36	<0.590	6.37	<1.09	<1.07	8.59	15.2	<0.704	5.64	5.03	124,000
	5/19/2022	1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	104,000	<64.8	<63.4	1,070	<69.4	<78.5	<89.9	<79.1	183,000	1,340,000	<78.7	105	<409	<295	<409	<65.5	<264	4,130	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	4,750,000
	5/23/2022	1015	12,100	<51.1	<62.1	<49.8	<33.0	<82.5	558,000	<96.2	<63.4	<189	<69.4	633	<89.9	<79.1	912,000	8,140,000	<78.7	<55.6	<409	14,100	<409	<65.5	<264	7,740	<68.1	<109	<47.2	<151	<87.0	<85.7	376	854	<56.3	<139	<69.4	27,600,000
		1017	Initiate Vacuum Recovery Event																																			
		1100	<238	<51.1	<62.1	<49.8	<33.0	<82.5	13,400	<64.8	<63.4	549	<69.4	158	<89.9	<79.1	70,800	263,000	<78.7	<55.6	<409	1,090	<409	<65.5	<264	7,450	<68.1	<109	<47.2	<151	<87.0	<85.7	86.9	215	<56.3	<139	<69.4	702,000
		1200	927	<12.8	<15.5	<12.4	<10.6	<20.6	6,410	<16.2	<15.9	196	<17.3	185	<22.5	<19.8	15,200	50,400	<19.7	<13.9	<102	590	<102	<16.4	<66.0	263	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	121	271	<14.1	<34.7	<17.3	450,000
		1215	Vacuum Recovery Event Terminated																																			
		1355	4,350	<51.1	<62.1	<49.8	88.6	<82.5	16,300	<64.8	<63.4	562	<69.4	146	<89.9	<79.1	47,000	154,000	<78.7	<55.6	<409	1,580	<409	<65.5	<264	7,520	<68.1	<109	<47.2	<151	<87.0	<85.7	85.9	205	<56.3	<139	<64.4	785,000
	5/26/2022	1250	49,400	<1,280	<1,550	<1,240	<826	<2,060	196,000	<1,620	<1,590	12,900	<1,730	<1,960	<2,250	<1,980	336,000	28,000,000	<1,970	<1,390	<10,200	8,230	<10,200	<1,640	<6,600	161,000	<1,700	<2,720	<1,180	<3,770	<2,180	2,330	<1,960	<1,960	<1,410	<3,470	<1,730	8,260,000
	6/1/2022	1405	8,290	<256	<311	<249	<165	<412	444,000	<324	<317	1,420	<347	<393	<450	<396	634,000	4,580,000	<393	<278	<2,040	6,100	<2,050	<328	<1,320	14,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	22,600,000
	6/8/2022	1033	<23,800	<5,100	<6,210	<4,980	<3,300	<8,250	231,000	<6,480	<6,340	28,800	<6,940	<7,850	<8,990	<7,910	470,000	3,700,000	<7,870	<5,560	<40,900	<29,500	<40,900	18,600	<26,400	531,000	<6,810	<10,900	<4,720	<15,100	<8,700	<8,570	<7,850	<7,850	<5,630	<13,900	<6,940	15,900,000
		1035	Initiate Vacuum Recovery Event																																			
		1058	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	4,340	<16.2	<15.9	60.9	30.8	56.4	<22.5	<19.8	13,300	32,900	<19.7	<13.9	<102	97.0	<102	<16.4	<66.0	166	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	70.7	135	<14.1	37.9	30.9	220,000
		1138	<2.97	2.17	<0.776	9.65	1.80	<1.03	1,390	<0.810	<0.793	31.7	11.4	28.8	1.31	2.37	4,620	906	3.85	<0.694	<5.11	53.4	<5.12	<0.819	4.45	72.5	<0.851	1.89	<0.590	13.0	<1.09	3.89	36.2	60.4	<0.704	16.3	12.5	98,700
		1153	Vacuum Recovery Event Terminated																																			
		1300	<59.4	<12.8	17.5	30.3	45.4	<20.6	14,300	<16.2	<15.9	83.9	24.4	34.8	<22.5	<19.8	45,000	135,000	<19.7	<13.9	<102	985	<102	<16.4	<66.0	804	<17.0	<27.2	<11.8	40.7	<21.8	<21.4	43.2	83.9	<14.1	35.3	27.8	1,020,000
	6/9/2022	1333	<238	<51.1	<62.1	53.2	<33.0	<82.5	30,900	<64.8	<63.4	1,250	<69.4	<78.5	<89.9	<79.1	76,100	279,000	<78.7	87.5	<409	1,540	<409	<65.5	<264	12,500	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	223	<56.3	<139	79.3	1,220,000
	6/12/2022	1315	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	5,960	<16.2	<15.9	790	<17.3	<19.6	<22.5	<19.8	7,930	108,000	<19.7	85.1	<102	563	<102	520	<66.0	11,700	<17.0	46.0	<11.8	64.8	<21.8	<21.4	<19.6	26.7	<14.1	<34.7	<17.3	271,000
	6/20/2022	1015	<238	<51.1	<62.1	<49.8	<33.0	<82.5	189,000	<64.8	<63.4	<189	<69.4	242	<89.9	<79.1	319,000	3,240,000	<78.7	<55.6	<409	7,960	<409	<65.5	<264	12,700	<68.1	<109	<47.2	<151	<87.0	<85.7	124	314	<56.3	157	105	10,600,000
		1040	Initiate Vacuum Recovery Event																																			
		1148	137	<12.8	<15.5	<12.4	<8.26	<20.6	1,390	<16.2	<15.9	<47.1	<17.3	57.4	<22.5	<19.8	3,870	14,200	<19.7	<13.9	<102	130	<102	<16.4	<66.0	112	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	39.3	78.0	<14.1	<34.7	<17.3	92,900
		1256	95.5	<0.639	<0.776	<0.622	<0.413	<1.03	475	<0.810	<0.793	19.0	<0.867	15.5	<1.12	2.19	1,060	2,440	<0.983	<0.694	<5.11	64.9	<5.12	<0.819	<3.30	47.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	23.1	36.5	<0.704	5.68	5.46	35,100
1257		Vacuum Recovery Event Terminated																																				
1403		197	<0.639	<0.776	<0.622	<0.413	<1.03	1,050	<0.810	<0.793	18.6	<0.867	7.21	<1.12	<0.989	2,070	15,700	<0.983	<0.694	<5.11	102	<5.12	<0.819	<3.30	113	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	8.69	17.0	<0.704	3.90	3.65	88,000	
6/23/2022	1305	14,000	<639	<776	<622	<413	<1,030	48,600	<810	<793	3,260	<867	<982	<1,120	<989	107,000	702,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	48,700	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	2,210,000	
6/29/2022	1255	27,300	<51.1	<62.1	161	<33.0	<82.5	339,000	<64.8	<63.4	1,690	<69.4	314	<89.9	<79.1	450,000	3,320,000	<78.7	<55.6	<409	19,000	<409	<65.5	<264	13,600	<68.1	<109	<47.2	<151	<87.0	<85.7	149	453	<56.3	<139	<69.4	19,600,000	



APPENDIX C

Laboratory Data Sheets and Chain-of-Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-15377-1

Laboratory Sample Delivery Group: Hobbs NM

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

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Authorized for release by:

6/10/2022 11:43:14 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-15377-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-15377-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

Qualifier	Qualifier Description
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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Midland

Case Narrative

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

Job ID: 880-15377-1
SDG: Hobbs NM

Job ID: 880-15377-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-15377-1

Receipt

The sample was received on 6/1/2022 4:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C

GC/MS VOA

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

HPLC/IC

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 860-55490 and analytical batch 860-55735 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: The method blank for preparation batch 860-55490 and analytical batch 860-55940 contained calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

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: 880-15377-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-15377-1

Date Collected: 06/01/22 10:55

Matrix: Water

Date Received: 06/01/22 16:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00296		0.00100	0.000214	mg/L		06/03/22 13:31	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		06/03/22 13:31	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		06/03/22 13:31	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		06/03/22 13:31	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		06/03/22 13:31	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		06/03/22 13:31	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		06/03/22 13:31	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		06/03/22 13:31	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		06/03/22 13:31	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		06/03/22 13:31	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		06/03/22 13:31	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		06/03/22 13:31	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		06/03/22 13:31	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		06/03/22 13:31	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		06/03/22 13:31	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		06/03/22 13:31	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		06/03/22 13:31	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		06/03/22 13:31	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		06/03/22 13:31	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		06/03/22 13:31	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		06/03/22 13:31	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		06/03/22 13:31	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		06/03/22 13:31	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		06/03/22 13:31	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		06/03/22 13:31	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		06/03/22 13:31	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		06/03/22 13:31	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		06/03/22 13:31	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		06/03/22 13:31	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		06/03/22 13:31	1
Ethylbenzene	0.0107		0.00100	0.000515	mg/L		06/03/22 13:31	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		06/03/22 13:31	1
Isopropylbenzene	0.00499		0.00100	0.000161	mg/L		06/03/22 13:31	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		06/03/22 13:31	1
m,p-Xylenes	0.0423		0.0100	0.000330	mg/L		06/03/22 13:31	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		06/03/22 13:31	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		06/03/22 13:31	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		06/03/22 13:31	1
N-Propylbenzene	0.00212		0.00100	0.000179	mg/L		06/03/22 13:31	1
o-Xylene	0.00653		0.00100	0.000192	mg/L		06/03/22 13:31	1
p-Cymene (p-Isopropyltoluene)	0.000538	J	0.00100	0.000233	mg/L		06/03/22 13:31	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L		06/03/22 13:31	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		06/03/22 13:31	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		06/03/22 13:31	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		06/03/22 13:31	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		06/03/22 13:31	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		06/03/22 13:31	1
Toluene	0.0233		0.00100	0.000500	mg/L		06/03/22 13:31	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		06/03/22 13:31	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-15377-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-15377-1

Date Collected: 06/01/22 10:55

Matrix: Water

Date Received: 06/01/22 16:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/03/22 13:31	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/03/22 13:31	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/03/22 13:31	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/03/22 13:31	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/03/22 13:31	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/03/22 13:31	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/03/22 13:31	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/03/22 13:31	1
1,2,4-Trimethylbenzene	0.00987		0.00100	0.000252 mg/L			06/03/22 13:31	1
1,3,5-Trimethylbenzene	0.00337		0.00100	0.000279 mg/L			06/03/22 13:31	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/03/22 13:31	1
Xylenes, Total	0.0488		0.0100	0.000330 mg/L			06/03/22 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		74 - 124		06/03/22 13:31	1
Dibromofluoromethane (Surr)	95		75 - 131		06/03/22 13:31	1
1,2-Dichloroethane-d4 (Surr)	90		63 - 144		06/03/22 13:31	1
Toluene-d8 (Surr)	97		80 - 117		06/03/22 13:31	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.449	J	0.500	0.0711 mg/L			06/02/22 21:17	1
Nitrate as N	0.0622	J	0.100	0.0391 mg/L			06/02/22 21:17	1
Chloride	205		0.500	0.200 mg/L			06/02/22 21:17	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/02/22 21:17	1
Fluoride	0.788		0.500	0.100 mg/L			06/02/22 21:17	1
Sulfate	37.2		0.500	0.109 mg/L			06/02/22 21:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	219		10.0	1.47 mg/L		06/03/22 09:30	06/04/22 03:44	50
Magnesium	42.0		0.200	0.0500 mg/L		06/03/22 09:30	06/04/22 01:45	1
Potassium	3.22		0.500	0.107 mg/L		06/03/22 09:30	06/04/22 01:45	1
Sodium	67.7	B	0.500	0.0667 mg/L		06/03/22 09:30	06/04/22 01:45	1
SiO2	61.3		1.07	0.0781 mg/L		06/03/22 09:30	06/04/22 01:45	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	2.15			%			06/10/22 11:09	1
Alkalinity	402		4.00	4.00 mg/L			06/03/22 12:56	1
Bicarbonate Alkalinity as CaCO3	402		4.00	4.00 mg/L			06/03/22 12:56	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/03/22 12:56	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			06/03/22 12:56	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			06/03/22 12:56	1
Total Dissolved Solids	1100		10.0	10.0 mg/L			06/02/22 18:18	1
pH	7.0	HF		SU			06/03/22 15:34	1
Temperature	20.6	HF		Celsius			06/03/22 15:34	1

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Surrogate Summary

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

Job ID: 880-15377-1
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)	(80-117)
880-15376-C-1 MS	Matrix Spike	93	96	86	95
880-15377-1	Levey Well	92	95	90	97
LCS 860-55468/3	Lab Control Sample	94	96	86	96
LCSD 860-55468/4	Lab Control Sample Dup	92	97	86	94
MB 860-55468/10	Method Blank	93	98	90	96
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: 880-15377-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-55468/10

Matrix: Water

Analysis Batch: 55468

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/03/22 10:26	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/03/22 10:26	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/03/22 10:26	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/03/22 10:26	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/03/22 10:26	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/03/22 10:26	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/03/22 10:26	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/03/22 10:26	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/03/22 10:26	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/03/22 10:26	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/03/22 10:26	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/03/22 10:26	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/03/22 10:26	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/03/22 10:26	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/03/22 10:26	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/03/22 10:26	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/03/22 10:26	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/03/22 10:26	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/03/22 10:26	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/03/22 10:26	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/03/22 10:26	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/03/22 10:26	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/03/22 10:26	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/03/22 10:26	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/03/22 10:26	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/03/22 10:26	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/03/22 10:26	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/03/22 10:26	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/03/22 10:26	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/03/22 10:26	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/03/22 10:26	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/03/22 10:26	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/03/22 10:26	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/03/22 10:26	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/03/22 10:26	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/03/22 10:26	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/03/22 10:26	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/03/22 10:26	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/03/22 10:26	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/03/22 10:26	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/03/22 10:26	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/03/22 10:26	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/03/22 10:26	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/03/22 10:26	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/03/22 10:26	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/03/22 10:26	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/03/22 10:26	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/03/22 10:26	1

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QC Sample Results

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

Job ID: 880-15377-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-55468/10

Matrix: Water

Analysis Batch: 55468

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	<0.000256	U	0.00100	0.000256 mg/L			06/03/22 10:26	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/03/22 10:26	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/03/22 10:26	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/03/22 10:26	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/03/22 10:26	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/03/22 10:26	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/03/22 10:26	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/03/22 10:26	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/03/22 10:26	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			06/03/22 10:26	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			06/03/22 10:26	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/03/22 10:26	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			06/03/22 10:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		74 - 124		06/03/22 10:26	1
Dibromofluoromethane (Surr)	98		75 - 131		06/03/22 10:26	1
1,2-Dichloroethane-d4 (Surr)	90		63 - 144		06/03/22 10:26	1
Toluene-d8 (Surr)	96		80 - 117		06/03/22 10:26	1

Lab Sample ID: LCS 860-55468/3

Matrix: Water

Analysis Batch: 55468

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	0.04781		mg/L		96	66 - 142
Bromobenzene	0.0500	0.05261		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05151		mg/L		103	60 - 140
Bromodichloromethane	0.0500	0.05188		mg/L		104	75 - 125
Bromoform	0.0500	0.05971		mg/L		119	75 - 125
Bromomethane	0.0500	0.04691		mg/L		94	60 - 140
2-Butanone	0.250	0.2411		mg/L		96	60 - 140
Carbon tetrachloride	0.0500	0.04444		mg/L		89	62 - 125
Chlorobenzene	0.0500	0.05375		mg/L		108	60 - 133
Chloroethane	0.0500	0.04420		mg/L		88	60 - 140
Chloroform	0.0500	0.04952		mg/L		99	70 - 130
Chloromethane	0.0500	0.03952		mg/L		79	60 - 140
2-Chlorotoluene	0.0500	0.04874		mg/L		97	73 - 125
4-Chlorotoluene	0.0500	0.05026		mg/L		101	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04456		mg/L		89	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04893		mg/L		98	74 - 125
Dibromochloromethane	0.0500	0.05756		mg/L		115	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05043		mg/L		101	59 - 125
1,2-Dibromoethane	0.0500	0.05166		mg/L		103	73 - 125
1,2-Dichlorobenzene	0.0500	0.05276		mg/L		106	75 - 125
1,3-Dichlorobenzene	0.0500	0.05323		mg/L		106	75 - 125
1,4-Dichlorobenzene	0.0500	0.05218		mg/L		104	75 - 125
Dichlorodifluoromethane	0.0500	0.04152		mg/L		83	70 - 130

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QC Sample Results

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

Job ID: 880-15377-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-55468/3

Matrix: Water

Analysis Batch: 55468

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	0.04301		mg/L		86	72 - 125
1,2-Dichloroethane	0.0500	0.04505		mg/L		90	68 - 127
1,1-Dichloroethene	0.0500	0.04305		mg/L		86	59 - 172
1,2-Dichloropropane	0.0500	0.04649		mg/L		93	74 - 125
1,3-Dichloropropane	0.0500	0.04842		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.05094		mg/L		102	75 - 125
1,1-Dichloropropene	0.0500	0.04428		mg/L		89	75 - 125
Ethylbenzene	0.0500	0.05124		mg/L		102	75 - 125
Hexachlorobutadiene	0.0500	0.05304		mg/L		106	75 - 125
Isopropylbenzene	0.0500	0.05365		mg/L		107	75 - 125
Methylene Chloride	0.0500	0.04513		mg/L		90	75 - 125
m,p-Xylenes	0.0500	0.05095		mg/L		102	75 - 125
MTBE	0.0500	0.04569		mg/L		91	65 - 135
Naphthalene	0.0500	0.04834		mg/L		97	70 - 130
n-Butylbenzene	0.0500	0.04990		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.04943		mg/L		99	75 - 125
o-Xylene	0.0500	0.05146		mg/L		103	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05268		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05156		mg/L		103	75 - 125
Styrene	0.0500	0.05393		mg/L		108	75 - 125
tert-Butylbenzene	0.0500	0.05212		mg/L		104	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05674		mg/L		113	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04690		mg/L		94	74 - 125
Tetrachloroethene	0.0500	0.05208		mg/L		104	71 - 125
Toluene	0.0500	0.04965		mg/L		99	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04181		mg/L		84	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04850		mg/L		97	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05092		mg/L		102	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04993		mg/L		100	75 - 135
1,1,1-Trichloroethane	0.0500	0.05026		mg/L		101	75 - 125
1,1,2-Trichloroethane	0.0500	0.05073		mg/L		101	75 - 127
Trichloroethene	0.0500	0.05358		mg/L		107	62 - 137
Trichlorofluoromethane	0.0500	0.04987		mg/L		100	60 - 140
1,2,3-Trichloropropane	0.0500	0.04551		mg/L		91	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05130		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05072		mg/L		101	60 - 140
Vinyl chloride	0.0500	0.04174		mg/L		83	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		74 - 124
Dibromofluoromethane (Surr)	96		75 - 131
1,2-Dichloroethane-d4 (Surr)	86		63 - 144
Toluene-d8 (Surr)	96		80 - 117

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QC Sample Results

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

Job ID: 880-15377-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-55468/4

Matrix: Water

Analysis Batch: 55468

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	0.04869		mg/L		97	66 - 142	2	25
Bromobenzene	0.0500	0.05184		mg/L		104	75 - 125	1	25
Bromochloromethane	0.0500	0.05118		mg/L		102	60 - 140	1	25
Bromodichloromethane	0.0500	0.05315		mg/L		106	75 - 125	2	25
Bromoform	0.0500	0.06222		mg/L		124	75 - 125	4	25
Bromomethane	0.0500	0.04616		mg/L		92	60 - 140	2	25
2-Butanone	0.250	0.2733		mg/L		109	60 - 140	13	25
Carbon tetrachloride	0.0500	0.04622		mg/L		92	62 - 125	4	25
Chlorobenzene	0.0500	0.05304		mg/L		106	60 - 133	1	25
Chloroethane	0.0500	0.04585		mg/L		92	60 - 140	4	25
Chloroform	0.0500	0.05057		mg/L		101	70 - 130	2	25
Chloromethane	0.0500	0.03990		mg/L		80	60 - 140	1	25
2-Chlorotoluene	0.0500	0.04950		mg/L		99	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05042		mg/L		101	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04547		mg/L		91	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05036		mg/L		101	74 - 125	3	25
Dibromochloromethane	0.0500	0.05728		mg/L		115	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05950		mg/L		119	59 - 125	17	25
1,2-Dibromoethane	0.0500	0.05318		mg/L		106	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.05419		mg/L		108	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.05370		mg/L		107	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.05267		mg/L		105	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04327		mg/L		87	70 - 130	4	25
1,1-Dichloroethane	0.0500	0.04288		mg/L		86	72 - 125	0	25
1,2-Dichloroethane	0.0500	0.04653		mg/L		93	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.04422		mg/L		88	59 - 172	3	25
1,2-Dichloropropane	0.0500	0.04795		mg/L		96	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04944		mg/L		99	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05130		mg/L		103	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.04427		mg/L		89	75 - 125	0	25
Ethylbenzene	0.0500	0.05183		mg/L		104	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05959		mg/L		119	75 - 125	12	25
Isopropylbenzene	0.0500	0.05535		mg/L		111	75 - 125	3	25
Methylene Chloride	0.0500	0.04486		mg/L		90	75 - 125	1	25
m,p-Xylenes	0.0500	0.05196		mg/L		104	75 - 125	2	25
MTBE	0.0500	0.04732		mg/L		95	65 - 135	4	25
Naphthalene	0.0500	0.06148		mg/L		123	70 - 130	24	25
n-Butylbenzene	0.0500	0.05308		mg/L		106	75 - 125	6	25
N-Propylbenzene	0.0500	0.05085		mg/L		102	75 - 125	3	25
o-Xylene	0.0500	0.05132		mg/L		103	75 - 125	0	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05551		mg/L		111	75 - 125	5	25
sec-Butylbenzene	0.0500	0.05453		mg/L		109	75 - 125	6	25
Styrene	0.0500	0.05429		mg/L		109	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05449		mg/L		109	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.05592		mg/L		112	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05038		mg/L		101	74 - 125	7	25
Tetrachloroethene	0.0500	0.05357		mg/L		107	71 - 125	3	25
Toluene	0.0500	0.04966		mg/L		99	59 - 139	0	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-15377-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-55468/4

Matrix: Water

Analysis Batch: 55468

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	0.04282		mg/L		86	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.04921		mg/L		98	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.06282		mg/L		126	75 - 137	21	25
1,2,4-Trichlorobenzene	0.0500	0.05709		mg/L		114	75 - 135	13	25
1,1,1-Trichloroethane	0.0500	0.05101		mg/L		102	75 - 125	1	25
1,1,2-Trichloroethane	0.0500	0.05238		mg/L		105	75 - 127	3	25
Trichloroethene	0.0500	0.05498		mg/L		110	62 - 137	3	25
Trichlorofluoromethane	0.0500	0.05292		mg/L		106	60 - 140	6	25
1,2,3-Trichloropropane	0.0500	0.04897		mg/L		98	75 - 125	7	25
1,2,4-Trimethylbenzene	0.0500	0.05232		mg/L		105	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.05221		mg/L		104	60 - 140	3	25
Vinyl chloride	0.0500	0.04371		mg/L		87	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	92		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	86		63 - 144
Toluene-d8 (Surr)	94		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-55313/3

Matrix: Water

Analysis Batch: 55313

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			06/02/22 10:51	1
Chloride	<0.200	U	0.500	0.200 mg/L			06/02/22 10:51	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/02/22 10:51	1
Sulfate	<0.109	U	0.500	0.109 mg/L			06/02/22 10:51	1

Lab Sample ID: LCS 860-55313/6

Matrix: Water

Analysis Batch: 55313

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	9.566		mg/L		96	90 - 110
Chloride	10.0	9.572		mg/L		96	90 - 110
Fluoride	10.0	10.04		mg/L		100	90 - 110
Sulfate	10.0	9.616		mg/L		96	90 - 110

Lab Sample ID: LCSD 860-55313/7

Matrix: Water

Analysis Batch: 55313

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	9.555		mg/L		96	90 - 110	0	20
Chloride	10.0	9.535		mg/L		95	90 - 110	0	20
Fluoride	10.0	10.07		mg/L		101	90 - 110	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-15377-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-55313/7

Matrix: Water

Analysis Batch: 55313

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	9.593		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-55313/5

Matrix: Water

Analysis Batch: 55313

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	0.4538	J	mg/L		91	50 - 150		
Chloride	0.500	0.5347		mg/L		107	50 - 150		
Fluoride	0.500	0.4198	J	mg/L		84	50 - 150		
Sulfate	0.500	0.5050		mg/L		101	50 - 150		

Lab Sample ID: MB 860-55314/3

Matrix: Water

Analysis Batch: 55314

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			06/02/22 10:51	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/02/22 10:51	1

Lab Sample ID: LCS 860-55314/6

Matrix: Water

Analysis Batch: 55314

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	9.561		mg/L		96	80 - 120		
Nitrite as N	5.00	4.699		mg/L		94	80 - 120		

Lab Sample ID: LCSD 860-55314/7

Matrix: Water

Analysis Batch: 55314

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	9.550		mg/L		95	80 - 120	0	20
Nitrite as N	5.00	4.724		mg/L		94	80 - 120	1	20

Lab Sample ID: LLCS 860-55314/4

Matrix: Water

Analysis Batch: 55314

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	0.1149		mg/L		115	50 - 150		
Nitrite as N	0.100	0.09456	J	mg/L		95	50 - 150		

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QC Sample Results

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

Job ID: 880-15377-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-54602/21-B

Matrix: Water

Analysis Batch: 55735

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		06/03/22 09:30	06/04/22 03:30	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		06/03/22 09:30	06/04/22 03:30	1
Potassium	<0.107	U	0.500	0.107 mg/L		06/03/22 09:30	06/04/22 03:30	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		06/03/22 09:30	06/04/22 03:30	1

Lab Sample ID: MB 860-55490/1-A

Matrix: Water

Analysis Batch: 55735

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		06/03/22 09:30	06/04/22 01:34	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		06/03/22 09:30	06/04/22 01:34	1
Potassium	<0.107	U	0.500	0.107 mg/L		06/03/22 09:30	06/04/22 01:34	1
Sodium	0.1214	J	0.500	0.0667 mg/L		06/03/22 09:30	06/04/22 01:34	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		06/03/22 09:30	06/04/22 01:34	1

Lab Sample ID: MB 860-55490/1-A

Matrix: Water

Analysis Batch: 55940

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.1193	J	0.200	0.0293 mg/L		06/03/22 09:30	06/06/22 17:30	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		06/03/22 09:30	06/06/22 17:30	1
Potassium	<0.107	U	0.500	0.107 mg/L		06/03/22 09:30	06/06/22 17:30	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		06/03/22 09:30	06/06/22 17:30	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		06/03/22 09:30	06/06/22 17:30	1

Lab Sample ID: LCS 860-54602/22-B

Matrix: Water

Analysis Batch: 55735

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	23.85		mg/L		95	85 - 115
Magnesium	25.0	23.81		mg/L		95	85 - 115
Potassium	10.0	9.722		mg/L		97	85 - 115
Sodium	25.0	24.25		mg/L		97	85 - 115
SiO2	21.4	20.92		mg/L		98	85 - 115

Lab Sample ID: LCS 860-55490/2-A

Matrix: Water

Analysis Batch: 55735

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	23.63		mg/L		95	85 - 115
Magnesium	25.0	23.57		mg/L		94	85 - 115
Potassium	10.0	9.566		mg/L		96	85 - 115
Sodium	25.0	23.83		mg/L		95	85 - 115
SiO2	21.4	20.59		mg/L		96	85 - 115

Eurofins Midland

QC Sample Results

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

Job ID: 880-15377-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-55490/2-A

Matrix: Water

Analysis Batch: 55940

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	23.05		mg/L		92	85 - 115
Magnesium	25.0	22.31		mg/L		89	85 - 115
Potassium	10.0	9.205		mg/L		92	85 - 115
Sodium	25.0	21.83		mg/L		87	85 - 115
SiO2	21.4	19.85		mg/L		93	85 - 115

Lab Sample ID: LCSD 860-54602/23-B

Matrix: Water

Analysis Batch: 55735

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.58		mg/L		98	85 - 115	3	20
Magnesium	25.0	24.16		mg/L		97	85 - 115	1	20
Potassium	10.0	9.838		mg/L		98	85 - 115	1	20
Sodium	25.0	24.63		mg/L		99	85 - 115	2	20
SiO2	21.4	21.14		mg/L		99	85 - 115	1	20

Lab Sample ID: LCSD 860-55490/3-A

Matrix: Water

Analysis Batch: 55735

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.41		mg/L		98	85 - 115	3	20
Magnesium	25.0	24.12		mg/L		96	85 - 115	2	20
Potassium	10.0	9.796		mg/L		98	85 - 115	2	20
Sodium	25.0	24.38		mg/L		98	85 - 115	2	20
SiO2	21.4	21.17		mg/L		99	85 - 115	3	20

Lab Sample ID: LCSD 860-55490/3-A

Matrix: Water

Analysis Batch: 55940

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	22.68		mg/L		91	85 - 115	2	20
Magnesium	25.0	22.39		mg/L		90	85 - 115	0	20
Potassium	10.0	9.183		mg/L		92	85 - 115	0	20
Sodium	25.0	22.63		mg/L		91	85 - 115	4	20
SiO2	21.4	19.95		mg/L		93	85 - 115	0	20

Lab Sample ID: LLCS 860-55490/4-A

Matrix: Water

Analysis Batch: 55735

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1795	J	mg/L		90	50 - 150
Magnesium	0.200	0.1766	J	mg/L		88	50 - 150
Potassium	0.500	0.5402		mg/L		108	50 - 150
Sodium	0.500	0.6846		mg/L		137	50 - 150
SiO2	1.07	1.072		mg/L		100	50 - 150

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QC Sample Results

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

Job ID: 880-15377-1
SDG: Hobbs NM

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

Lab Sample ID: 880-15377-1 MS

Matrix: Water

Analysis Batch: 55735

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	42.0		25.0	63.21		mg/L		85	70 - 130
Potassium	3.22		10.0	12.91		mg/L		97	70 - 130
Sodium	67.7	B	25.0	87.79		mg/L		80	70 - 130
SiO2	61.3		21.4	79.59		mg/L		85	70 - 130

Lab Sample ID: 880-15377-1 MS

Matrix: Water

Analysis Batch: 55940

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	70.2		25.0	96.44		mg/L		105	70 - 130

Lab Sample ID: 880-15377-1 MSD

Matrix: Water

Analysis Batch: 55735

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	42.0		25.0	63.21		mg/L		85	70 - 130	0	20
Potassium	3.22		10.0	12.87		mg/L		97	70 - 130	0	20
Sodium	67.7	B	25.0	87.84		mg/L		81	70 - 130	0	20
SiO2	61.3		21.4	79.96		mg/L		87	70 - 130	0	20

Lab Sample ID: 880-15377-1 MSD

Matrix: Water

Analysis Batch: 55940

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 55490

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	70.2		25.0	91.82		mg/L		86	70 - 130	5	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-55608/3

Matrix: Water

Analysis Batch: 55608

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			06/03/22 11:55	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/03/22 11:55	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/03/22 11:55	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			06/03/22 11:55	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			06/03/22 11:55	1

Lab Sample ID: LCS 860-55608/4

Matrix: Water

Analysis Batch: 55608

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	261.5		mg/L		105	85 - 115

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QC Sample Results

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

Job ID: 880-15377-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-55608/5

Matrix: Water

Analysis Batch: 55608

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	254.4		mg/L		102	85 - 115	3	20

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

Lab Sample ID: MB 860-55451/1

Matrix: Water

Analysis Batch: 55451

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			06/02/22 18:18	1

Lab Sample ID: LCS 860-55451/2

Matrix: Water

Analysis Batch: 55451

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	1051		mg/L		105	80 - 120	

Lab Sample ID: LCSD 860-55451/3

Matrix: Water

Analysis Batch: 55451

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	983.0		mg/L		98	80 - 120	7	10

Lab Sample ID: LLCS 860-55451/4

Matrix: Water

Analysis Batch: 55451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
Total Dissolved Solids	5.00	6.000		mg/L		120	50 - 150	

QC Association Summary

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

Job ID: 880-15377-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 55468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15377-1	Levey Well	Total/NA	Water	8260C	
MB 860-55468/10	Method Blank	Total/NA	Water	8260C	
LCS 860-55468/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-55468/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 55313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15377-1	Levey Well	Total/NA	Water	300.0	
MB 860-55313/3	Method Blank	Total/NA	Water	300.0	
LCS 860-55313/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-55313/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-55313/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 55314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15377-1	Levey Well	Total/NA	Water	300.0	
MB 860-55314/3	Method Blank	Total/NA	Water	300.0	
LCS 860-55314/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-55314/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-55314/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Filtration Batch: 54602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-54602/21-B	Method Blank	Total Recoverable	Water	Filtration	
LCS 860-54602/22-B	Lab Control Sample	Total Recoverable	Water	Filtration	
LCSD 860-54602/23-B	Lab Control Sample Dup	Total Recoverable	Water	Filtration	

Prep Batch: 55490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15377-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-54602/21-B	Method Blank	Total Recoverable	Water	200.7	54602
MB 860-55490/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-54602/22-B	Lab Control Sample	Total Recoverable	Water	200.7	54602
LCS 860-55490/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-54602/23-B	Lab Control Sample Dup	Total Recoverable	Water	200.7	54602
LCSD 860-55490/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-55490/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-15377-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-15377-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 55735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15377-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	55490
880-15377-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	55490
MB 860-54602/21-B	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	55490
MB 860-55490/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	55490
LCS 860-54602/22-B	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	55490
LCS 860-55490/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	55490

Eurofins Midland

QC Association Summary

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

Job ID: 880-15377-1
SDG: Hobbs NM

Metals (Continued)

Analysis Batch: 55735 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-54602/23-B	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	55490
LCSD 860-55490/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	55490
LLCS 860-55490/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	55490
880-15377-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	55490
880-15377-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	55490

Analysis Batch: 55940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-55490/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	55490
LCS 860-55490/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	55490
LCSD 860-55490/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	55490
880-15377-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	55490
880-15377-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	55490

General Chemistry

Analysis Batch: 55451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15377-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-55451/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-55451/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-55451/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-55451/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 55581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15377-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 55608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15377-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-55608/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-55608/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-55608/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 860-55608/34	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 56438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15377-1	Levey Well	Total/NA	Water	SM 1030E	

Eurofins Midland

Lab Chronicle

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

Job ID: 880-15377-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-15377-1
Date Collected: 06/01/22 10:55 Matrix: Water
Date Received: 06/01/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	55468	06/03/22 13:31	NA	XEN STF
Total/NA	Analysis	300.0		1	55313	06/02/22 21:17	WP	XEN STF
Total/NA	Analysis	300.0		1	55314	06/02/22 21:17	WP	XEN STF
Total Recoverable	Prep	200.7			55490	06/03/22 09:30	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	55735	06/04/22 01:45	AV	XEN STF
Total Recoverable	Prep	200.7			55490	06/03/22 09:30	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	55735	06/04/22 03:44	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	56438	06/10/22 11:09	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	55608	06/03/22 12:56	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	55451	06/02/22 18:18	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	55581	06/03/22 15:34	TL	XEN STF

Laboratory References:
XEN STF = 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: 880-15377-1
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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
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: 880-15377-1
SDG: Hobbs NM

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

Protocol References:

- EPA = US Environmental Protection Agency
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- 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:

- XEN STF = 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: 880-15377-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-15377-1	Levey Well	Water	06/01/22 10:55	06/01/22 16:00

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- 2
- 3
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- 14



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Work Order No: 100

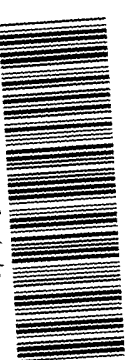
www.xenco.com Page 1 of 1

Project Manager:	Beaux Jennings	Bill to (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	432-230-3344	Email:	bjenings@ensolum.com

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

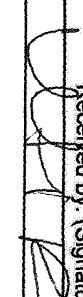
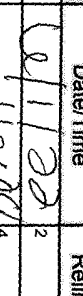
Project Name:	Levey Well	Hobbs NM	Turn Around		ANALYSIS REQUEST	Work Order Notes
Project Number:	03B1417001		Routine ☐			
P.O. Number:	03B1417001		Rush 24 hr			
Sampler's Name:	Shane Diller		Due Date			

SAMPLE RECEIPT	
Temperature (°C):	Temp Blank: Yes ☒ No ☐
Received Intact:	Yes ☒ No ☐
Cooler Custody Seals:	Yes ☒ No ☐
Sample Custody Seals:	Yes ☒ No ☐
Thermometer ID: 1100-2	
Correction Factor:	
Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	VOCs	Anions: F, Cl, SO4, B	Cations: Ca, K, Mg, Na, Si	pH	Alkalinity	TDS	Sample Comments
Levey Well	GW	6-1-22	10:55	—	7	X	X	X	X	X	X	24hr
880-15377 Chain of Custody 												

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 	2 	6/1/22	3 	4 	6/1/22
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-15377-1

SDG Number: Hobbs NM

Login Number: 15377

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-15377-1

SDG Number: Hobbs NM

Login Number: 15377

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 06/02/22 04:28 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 America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-15376-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Authorized for release by:

6/10/2022 11:42:52 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-15376-1

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Definitions/Glossary

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Eurofins Midland

Case Narrative

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

Job ID: 880-15376-1

Job ID: 880-15376-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-15376-1

Receipt

The samples were received on 6/1/2022 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (880-15376-2). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

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

HPLC/IC

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: 880-15376-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-15376-1

Date Collected: 06/01/22 11:50

Matrix: Water

Date Received: 06/01/22 16:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/03/22 11:07	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/03/22 11:07	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/03/22 11:07	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/03/22 11:07	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/03/22 11:07	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/03/22 11:07	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/03/22 11:07	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/03/22 11:07	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/03/22 11:07	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/03/22 11:07	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/03/22 11:07	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/03/22 11:07	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/03/22 11:07	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/03/22 11:07	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/03/22 11:07	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/03/22 11:07	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/03/22 11:07	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/03/22 11:07	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/03/22 11:07	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/03/22 11:07	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/03/22 11:07	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/03/22 11:07	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/03/22 11:07	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/03/22 11:07	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/03/22 11:07	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/03/22 11:07	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/03/22 11:07	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/03/22 11:07	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/03/22 11:07	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/03/22 11:07	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/03/22 11:07	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/03/22 11:07	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/03/22 11:07	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/03/22 11:07	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/03/22 11:07	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/03/22 11:07	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/03/22 11:07	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/03/22 11:07	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/03/22 11:07	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/03/22 11:07	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/03/22 11:07	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/03/22 11:07	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/03/22 11:07	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/03/22 11:07	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/03/22 11:07	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/03/22 11:07	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/03/22 11:07	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/03/22 11:07	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			06/03/22 11:07	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-15376-1

Date Collected: 06/01/22 11:50

Matrix: Water

Date Received: 06/01/22 16:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/03/22 11:07	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/03/22 11:07	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/03/22 11:07	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/03/22 11:07	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/03/22 11:07	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/03/22 11:07	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/03/22 11:07	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/03/22 11:07	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			06/03/22 11:07	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			06/03/22 11:07	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/03/22 11:07	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			06/03/22 11:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		74 - 124		06/03/22 11:07	1
Dibromofluoromethane (Surr)	97		75 - 131		06/03/22 11:07	1
1,2-Dichloroethane-d4 (Surr)	91		63 - 144		06/03/22 11:07	1
Toluene-d8 (Surr)	98		80 - 117		06/03/22 11:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.926	U	4.69	0.926 mg/L			05/31/22 18:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.926	U	4.69	0.926 mg/L		06/03/22 10:59	06/03/22 12:28	1
Diesel Range Organics (Over C10-C28)	<0.926	U	4.69	0.926 mg/L		06/03/22 10:59	06/03/22 12:28	1
Oil Range Organics (Over C28-C36)	<0.894	U	4.69	0.894 mg/L		06/03/22 10:59	06/03/22 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135	06/03/22 10:59	06/03/22 12:28	1
o-Terphenyl	96		70 - 135	06/03/22 10:59	06/03/22 12:28	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		0.500	0.200 mg/L			06/02/22 20:39	1
Nitrate as N	0.0629	J	0.100	0.0391 mg/L			06/02/22 20:39	1
Fluoride	0.690		0.500	0.100 mg/L			06/02/22 20:39	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/02/22 20:39	1
Sulfate	46.4		0.500	0.109 mg/L			06/02/22 20:39	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	240		4.00	4.00 mg/L			06/03/22 12:21	1
Bicarbonate Alkalinity as CaCO3	240		4.00	4.00 mg/L			06/03/22 12:21	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/03/22 12:21	1
Carbon dioxide	230			mg/L			06/10/22 11:07	1
Carbon Dioxide, Free	19.0			mg/L			06/10/22 11:07	1
pH	7.4	HF		SU			06/03/22 15:34	1

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Client Sample Results

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-15376-1

Date Collected: 06/01/22 11:50

Matrix: Water

Date Received: 06/01/22 16:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	20.5	HF		Celsius			06/03/22 15:34	1
Sulfide	0.800	J	5.00	0.495 mg/L			06/07/22 18:00	1

Client Sample ID: MW-2

Lab Sample ID: 880-15376-2

Date Collected: 06/01/22 13:00

Matrix: Water

Date Received: 06/01/22 16:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0387		0.00100	0.000214 mg/L			06/03/22 11:28	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/03/22 11:28	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/03/22 11:28	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/03/22 11:28	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/03/22 11:28	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/03/22 11:28	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/03/22 11:28	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/03/22 11:28	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/03/22 11:28	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/03/22 11:28	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/03/22 11:28	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/03/22 11:28	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/03/22 11:28	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/03/22 11:28	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/03/22 11:28	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/03/22 11:28	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/03/22 11:28	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/03/22 11:28	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/03/22 11:28	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/03/22 11:28	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/03/22 11:28	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/03/22 11:28	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/03/22 11:28	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/03/22 11:28	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/03/22 11:28	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/03/22 11:28	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/03/22 11:28	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/03/22 11:28	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/03/22 11:28	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/03/22 11:28	1
Ethylbenzene	0.0414		0.00100	0.000515 mg/L			06/03/22 11:28	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/03/22 11:28	1
Isopropylbenzene	0.0156		0.00100	0.000161 mg/L			06/03/22 11:28	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/03/22 11:28	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/03/22 11:28	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/03/22 11:28	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/03/22 11:28	1
N-Propylbenzene	0.00395		0.00100	0.000179 mg/L			06/03/22 11:28	1
o-Xylene	0.0212		0.00100	0.000192 mg/L			06/03/22 11:28	1
p-Cymene (p-Isopropyltoluene)	0.00147		0.00100	0.000233 mg/L			06/03/22 11:28	1
sec-Butylbenzene	0.00172		0.00100	0.000199 mg/L			06/03/22 11:28	1

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Client Sample Results

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-15376-2

Date Collected: 06/01/22 13:00

Matrix: Water

Date Received: 06/01/22 16:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/03/22 11:28	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/03/22 11:28	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/03/22 11:28	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/03/22 11:28	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/03/22 11:28	1
Toluene	0.00639		0.00100	0.000500 mg/L			06/03/22 11:28	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			06/03/22 11:28	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/03/22 11:28	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/03/22 11:28	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/03/22 11:28	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/03/22 11:28	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/03/22 11:28	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/03/22 11:28	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/03/22 11:28	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/03/22 11:28	1
1,2,4-Trimethylbenzene	0.0573		0.00100	0.000252 mg/L			06/03/22 11:28	1
1,3,5-Trimethylbenzene	0.0153		0.00100	0.000279 mg/L			06/03/22 11:28	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/03/22 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		74 - 124		06/03/22 11:28	1
Dibromofluoromethane (Surr)	96		75 - 131		06/03/22 11:28	1
1,2-Dichloroethane-d4 (Surr)	91		63 - 144		06/03/22 11:28	1
Toluene-d8 (Surr)	94		80 - 117		06/03/22 11:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.230		0.0500	0.00165 mg/L			06/03/22 11:48	5
Xylenes, Total	0.253		0.0500	0.00165 mg/L			06/03/22 11:48	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		74 - 124		06/03/22 11:48	5
Dibromofluoromethane (Surr)	96		75 - 131		06/03/22 11:48	5
1,2-Dichloroethane-d4 (Surr)	88		63 - 144		06/03/22 11:48	5
Toluene-d8 (Surr)	95		80 - 117		06/03/22 11:48	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.43	J	4.60	0.909 mg/L			05/31/22 18:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.43	J	4.60	0.909 mg/L		06/03/22 10:59	06/03/22 12:47	1
Diesel Range Organics (Over C10-C28)	<0.909	U	4.60	0.909 mg/L		06/03/22 10:59	06/03/22 12:47	1
Oil Range Organics (Over C28-C36)	<0.877	U	4.60	0.877 mg/L		06/03/22 10:59	06/03/22 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 135	06/03/22 10:59	06/03/22 12:47	1
o-Terphenyl	87		70 - 135	06/03/22 10:59	06/03/22 12:47	1

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Client Sample Results

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

Job ID: 880-15376-1

Client Sample ID: MW-2
Date Collected: 06/01/22 13:00
Date Received: 06/01/22 16:00

Lab Sample ID: 880-15376-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		0.500	0.200	mg/L			06/02/22 20:52	1
Nitrate as N	0.481		0.100	0.0391	mg/L			06/02/22 20:52	1
Fluoride	0.107	J	0.500	0.100	mg/L			06/02/22 20:52	1
Nitrite as N	1.47		0.100	0.0293	mg/L			06/02/22 20:52	1
Sulfate	116		0.500	0.109	mg/L			06/02/22 20:52	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1340		4.00	4.00	mg/L			06/03/22 12:47	1
Bicarbonate Alkalinity as CaCO3	1340		4.00	4.00	mg/L			06/03/22 12:47	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			06/03/22 12:47	1
Carbon dioxide	2520				mg/L			06/10/22 11:07	1
Carbon Dioxide, Free	1340				mg/L			06/10/22 11:07	1
pH	6.3	HF			SU			06/03/22 15:34	1
Temperature	20.5	HF			Celsius			06/03/22 15:34	1
Sulfide	<0.495	U	5.00	0.495	mg/L			06/07/22 18:00	1

Surrogate Summary

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

Job ID: 880-15376-1

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 (80-117)
880-15376-1	MW-1	92	97	91	98
880-15376-1 MS	MW-1	93	96	86	95
880-15376-2	MW-2	91	96	91	94
880-15376-2 - DL	MW-2	93	96	88	95
LCS 860-55468/3	Lab Control Sample	94	96	86	96
LCSD 860-55468/4	Lab Control Sample Dup	92	97	86	94
MB 860-55468/10	Method Blank	93	98	90	96
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)
880-15376-1	MW-1	85	96
880-15376-2	MW-2	77	87
LCS 860-55533/2-A	Lab Control Sample	92	97
LCSD 860-55533/3-A	Lab Control Sample Dup	93	98
MB 860-55533/1-A	Method Blank	92	103
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-55468/10

Matrix: Water

Analysis Batch: 55468

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/03/22 10:26	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/03/22 10:26	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/03/22 10:26	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/03/22 10:26	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/03/22 10:26	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/03/22 10:26	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/03/22 10:26	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/03/22 10:26	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/03/22 10:26	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/03/22 10:26	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/03/22 10:26	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/03/22 10:26	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/03/22 10:26	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/03/22 10:26	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/03/22 10:26	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/03/22 10:26	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/03/22 10:26	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/03/22 10:26	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/03/22 10:26	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/03/22 10:26	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/03/22 10:26	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/03/22 10:26	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/03/22 10:26	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/03/22 10:26	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/03/22 10:26	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/03/22 10:26	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/03/22 10:26	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/03/22 10:26	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/03/22 10:26	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/03/22 10:26	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/03/22 10:26	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/03/22 10:26	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/03/22 10:26	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/03/22 10:26	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/03/22 10:26	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/03/22 10:26	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/03/22 10:26	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/03/22 10:26	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/03/22 10:26	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/03/22 10:26	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/03/22 10:26	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/03/22 10:26	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/03/22 10:26	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/03/22 10:26	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/03/22 10:26	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/03/22 10:26	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/03/22 10:26	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/03/22 10:26	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-55468/10

Matrix: Water

Analysis Batch: 55468

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	<0.000256	U	0.00100	0.000256	mg/L		06/03/22 10:26	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		06/03/22 10:26	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		06/03/22 10:26	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		06/03/22 10:26	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L		06/03/22 10:26	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L		06/03/22 10:26	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L		06/03/22 10:26	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L		06/03/22 10:26	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L		06/03/22 10:26	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L		06/03/22 10:26	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L		06/03/22 10:26	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L		06/03/22 10:26	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L		06/03/22 10:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		74 - 124		06/03/22 10:26	1
Dibromofluoromethane (Surr)	98		75 - 131		06/03/22 10:26	1
1,2-Dichloroethane-d4 (Surr)	90		63 - 144		06/03/22 10:26	1
Toluene-d8 (Surr)	96		80 - 117		06/03/22 10:26	1

Lab Sample ID: LCS 860-55468/3

Matrix: Water

Analysis Batch: 55468

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	0.04781		mg/L		96	66 - 142
Bromobenzene	0.0500	0.05261		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05151		mg/L		103	60 - 140
Bromodichloromethane	0.0500	0.05188		mg/L		104	75 - 125
Bromoform	0.0500	0.05971		mg/L		119	75 - 125
Bromomethane	0.0500	0.04691		mg/L		94	60 - 140
2-Butanone	0.250	0.2411		mg/L		96	60 - 140
Carbon tetrachloride	0.0500	0.04444		mg/L		89	62 - 125
Chlorobenzene	0.0500	0.05375		mg/L		108	60 - 133
Chloroethane	0.0500	0.04420		mg/L		88	60 - 140
Chloroform	0.0500	0.04952		mg/L		99	70 - 130
Chloromethane	0.0500	0.03952		mg/L		79	60 - 140
2-Chlorotoluene	0.0500	0.04874		mg/L		97	73 - 125
4-Chlorotoluene	0.0500	0.05026		mg/L		101	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04456		mg/L		89	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04893		mg/L		98	74 - 125
Dibromochloromethane	0.0500	0.05756		mg/L		115	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05043		mg/L		101	59 - 125
1,2-Dibromoethane	0.0500	0.05166		mg/L		103	73 - 125
1,2-Dichlorobenzene	0.0500	0.05276		mg/L		106	75 - 125
1,3-Dichlorobenzene	0.0500	0.05323		mg/L		106	75 - 125
1,4-Dichlorobenzene	0.0500	0.05218		mg/L		104	75 - 125
Dichlorodifluoromethane	0.0500	0.04152		mg/L		83	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-55468/3

Matrix: Water

Analysis Batch: 55468

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	0.04301		mg/L		86	72 - 125
1,2-Dichloroethane	0.0500	0.04505		mg/L		90	68 - 127
1,1-Dichloroethene	0.0500	0.04305		mg/L		86	59 - 172
1,2-Dichloropropane	0.0500	0.04649		mg/L		93	74 - 125
1,3-Dichloropropane	0.0500	0.04842		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.05094		mg/L		102	75 - 125
1,1-Dichloropropene	0.0500	0.04428		mg/L		89	75 - 125
Ethylbenzene	0.0500	0.05124		mg/L		102	75 - 125
Hexachlorobutadiene	0.0500	0.05304		mg/L		106	75 - 125
Isopropylbenzene	0.0500	0.05365		mg/L		107	75 - 125
Methylene Chloride	0.0500	0.04513		mg/L		90	75 - 125
m,p-Xylenes	0.0500	0.05095		mg/L		102	75 - 125
MTBE	0.0500	0.04569		mg/L		91	65 - 135
Naphthalene	0.0500	0.04834		mg/L		97	70 - 130
n-Butylbenzene	0.0500	0.04990		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.04943		mg/L		99	75 - 125
o-Xylene	0.0500	0.05146		mg/L		103	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05268		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05156		mg/L		103	75 - 125
Styrene	0.0500	0.05393		mg/L		108	75 - 125
tert-Butylbenzene	0.0500	0.05212		mg/L		104	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05674		mg/L		113	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04690		mg/L		94	74 - 125
Tetrachloroethene	0.0500	0.05208		mg/L		104	71 - 125
Toluene	0.0500	0.04965		mg/L		99	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04181		mg/L		84	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04850		mg/L		97	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05092		mg/L		102	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04993		mg/L		100	75 - 135
1,1,1-Trichloroethane	0.0500	0.05026		mg/L		101	75 - 125
1,1,2-Trichloroethane	0.0500	0.05073		mg/L		101	75 - 127
Trichloroethene	0.0500	0.05358		mg/L		107	62 - 137
Trichlorofluoromethane	0.0500	0.04987		mg/L		100	60 - 140
1,2,3-Trichloropropane	0.0500	0.04551		mg/L		91	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05130		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05072		mg/L		101	60 - 140
Vinyl chloride	0.0500	0.04174		mg/L		83	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		74 - 124
Dibromofluoromethane (Surr)	96		75 - 131
1,2-Dichloroethane-d4 (Surr)	86		63 - 144
Toluene-d8 (Surr)	96		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-55468/4

Matrix: Water

Analysis Batch: 55468

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	0.04869		mg/L		97	66 - 142	2	25
Bromobenzene	0.0500	0.05184		mg/L		104	75 - 125	1	25
Bromochloromethane	0.0500	0.05118		mg/L		102	60 - 140	1	25
Bromodichloromethane	0.0500	0.05315		mg/L		106	75 - 125	2	25
Bromoform	0.0500	0.06222		mg/L		124	75 - 125	4	25
Bromomethane	0.0500	0.04616		mg/L		92	60 - 140	2	25
2-Butanone	0.250	0.2733		mg/L		109	60 - 140	13	25
Carbon tetrachloride	0.0500	0.04622		mg/L		92	62 - 125	4	25
Chlorobenzene	0.0500	0.05304		mg/L		106	60 - 133	1	25
Chloroethane	0.0500	0.04585		mg/L		92	60 - 140	4	25
Chloroform	0.0500	0.05057		mg/L		101	70 - 130	2	25
Chloromethane	0.0500	0.03990		mg/L		80	60 - 140	1	25
2-Chlorotoluene	0.0500	0.04950		mg/L		99	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05042		mg/L		101	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04547		mg/L		91	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05036		mg/L		101	74 - 125	3	25
Dibromochloromethane	0.0500	0.05728		mg/L		115	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05950		mg/L		119	59 - 125	17	25
1,2-Dibromoethane	0.0500	0.05318		mg/L		106	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.05419		mg/L		108	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.05370		mg/L		107	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.05267		mg/L		105	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04327		mg/L		87	70 - 130	4	25
1,1-Dichloroethane	0.0500	0.04288		mg/L		86	72 - 125	0	25
1,2-Dichloroethane	0.0500	0.04653		mg/L		93	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.04422		mg/L		88	59 - 172	3	25
1,2-Dichloropropane	0.0500	0.04795		mg/L		96	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04944		mg/L		99	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05130		mg/L		103	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.04427		mg/L		89	75 - 125	0	25
Ethylbenzene	0.0500	0.05183		mg/L		104	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05959		mg/L		119	75 - 125	12	25
Isopropylbenzene	0.0500	0.05535		mg/L		111	75 - 125	3	25
Methylene Chloride	0.0500	0.04486		mg/L		90	75 - 125	1	25
m,p-Xylenes	0.0500	0.05196		mg/L		104	75 - 125	2	25
MTBE	0.0500	0.04732		mg/L		95	65 - 135	4	25
Naphthalene	0.0500	0.06148		mg/L		123	70 - 130	24	25
n-Butylbenzene	0.0500	0.05308		mg/L		106	75 - 125	6	25
N-Propylbenzene	0.0500	0.05085		mg/L		102	75 - 125	3	25
o-Xylene	0.0500	0.05132		mg/L		103	75 - 125	0	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05551		mg/L		111	75 - 125	5	25
sec-Butylbenzene	0.0500	0.05453		mg/L		109	75 - 125	6	25
Styrene	0.0500	0.05429		mg/L		109	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05449		mg/L		109	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.05592		mg/L		112	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05038		mg/L		101	74 - 125	7	25
Tetrachloroethene	0.0500	0.05357		mg/L		107	71 - 125	3	25
Toluene	0.0500	0.04966		mg/L		99	59 - 139	0	25

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QC Sample Results

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-55468/4

Matrix: Water

Analysis Batch: 55468

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	0.04282		mg/L		86	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.04921		mg/L		98	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.06282		mg/L		126	75 - 137	21	25
1,2,4-Trichlorobenzene	0.0500	0.05709		mg/L		114	75 - 135	13	25
1,1,1-Trichloroethane	0.0500	0.05101		mg/L		102	75 - 125	1	25
1,1,2-Trichloroethane	0.0500	0.05238		mg/L		105	75 - 127	3	25
Trichloroethene	0.0500	0.05498		mg/L		110	62 - 137	3	25
Trichlorofluoromethane	0.0500	0.05292		mg/L		106	60 - 140	6	25
1,2,3-Trichloropropane	0.0500	0.04897		mg/L		98	75 - 125	7	25
1,2,4-Trimethylbenzene	0.0500	0.05232		mg/L		105	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.05221		mg/L		104	60 - 140	3	25
Vinyl chloride	0.0500	0.04371		mg/L		87	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	92		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	86		63 - 144
Toluene-d8 (Surr)	94		80 - 117

Lab Sample ID: 880-15376-1 MS

Matrix: Water

Analysis Batch: 55468

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	<0.000214	U	0.0500	0.05330		mg/L		107	66 - 142
Bromobenzene	<0.000300	U	0.0500	0.05430		mg/L		109	75 - 125
Bromochloromethane	<0.000209	U	0.0500	0.05562		mg/L		111	60 - 140
Bromodichloromethane	<0.000231	U	0.0500	0.05467		mg/L		109	75 - 125
Bromoform	<0.000630	U	0.0500	0.06123		mg/L		122	75 - 125
Bromomethane	<0.00105	U	0.0500	0.04995		mg/L		100	60 - 140
2-Butanone	<0.00270	U	0.250	0.2429		mg/L		97	60 - 140
Carbon tetrachloride	<0.000423	U	0.0500	0.05026		mg/L		101	62 - 125
Chlorobenzene	<0.000159	U	0.0500	0.05676		mg/L		114	60 - 133
Chloroethane	<0.000433	U	0.0500	0.04812		mg/L		96	60 - 140
Chloroform	<0.000259	U	0.0500	0.05255		mg/L		105	70 - 130
Chloromethane	<0.000318	U	0.0500	0.04241		mg/L		85	60 - 140
2-Chlorotoluene	<0.000214	U	0.0500	0.05048		mg/L		101	73 - 125
4-Chlorotoluene	<0.000183	U	0.0500	0.05204		mg/L		104	74 - 125
cis-1,2-Dichloroethene	<0.000174	U	0.0500	0.04943		mg/L		99	75 - 125
cis-1,3-Dichloropropene	<0.000690	U	0.0500	0.05374		mg/L		107	74 - 125
Dibromochloromethane	<0.000739	U	0.0500	0.05837		mg/L		117	73 - 125
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.0500	0.05423		mg/L		108	59 - 125
1,2-Dibromoethane	<0.000337	U	0.0500	0.05413		mg/L		108	73 - 125
1,2-Dichlorobenzene	<0.000236	U	0.0500	0.05384		mg/L		108	75 - 125
1,3-Dichlorobenzene	<0.000197	U	0.0500	0.05415		mg/L		108	75 - 125
1,4-Dichlorobenzene	<0.000199	U	0.0500	0.05286		mg/L		106	75 - 125
Dichlorodifluoromethane	<0.000316	U	0.0500	0.04991		mg/L		100	70 - 130
1,1-Dichloroethane	<0.000244	U	0.0500	0.04680		mg/L		94	72 - 125

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QC Sample Results

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: 880-15376-1 MS

Client Sample ID: MW-1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55468

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	<0.000285	U	0.0500	0.04934		mg/L		99	68 - 127
1,1-Dichloroethene	<0.000216	U	0.0500	0.05091		mg/L		102	59 - 172
1,2-Dichloropropane	<0.000396	U	0.0500	0.05098		mg/L		102	74 - 125
1,3-Dichloropropane	<0.000439	U	0.0500	0.05113		mg/L		102	75 - 125
2,2-Dichloropropane	<0.000360	U	0.0500	0.05417		mg/L		108	75 - 125
1,1-Dichloropropene	<0.000481	U	0.0500	0.05136		mg/L		103	75 - 125
Ethylbenzene	<0.000515	U	0.0500	0.05502		mg/L		110	75 - 125
Hexachlorobutadiene	<0.00200	U	0.0500	0.05378		mg/L		108	75 - 125
Isopropylbenzene	<0.000161	U	0.0500	0.05683		mg/L		114	75 - 125
Methylene Chloride	<0.00191	U	0.0500	0.04804		mg/L		96	75 - 125
m,p-Xylenes	<0.000330	U	0.0500	0.05517		mg/L		110	75 - 125
MTBE	<0.000571	U	0.0500	0.04709		mg/L		94	65 - 135
Naphthalene	<0.00200	U	0.0500	0.05186		mg/L		104	70 - 130
n-Butylbenzene	<0.000286	U	0.0500	0.05211		mg/L		104	75 - 125
N-Propylbenzene	<0.000179	U	0.0500	0.05182		mg/L		104	75 - 125
o-Xylene	<0.000192	U	0.0500	0.05403		mg/L		108	75 - 125
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.0500	0.05423		mg/L		108	75 - 125
sec-Butylbenzene	<0.000199	U	0.0500	0.05358		mg/L		107	75 - 125
Styrene	<0.000623	U	0.0500	0.05795		mg/L		116	75 - 125
tert-Butylbenzene	<0.000195	U	0.0500	0.05410		mg/L		108	75 - 125
1,1,1,2-Tetrachloroethane	<0.000327	U	0.0500	0.05809		mg/L		116	72 - 125
1,1,2,2-Tetrachloroethane	<0.000284	U	0.0500	0.04718		mg/L		94	74 - 125
Tetrachloroethene	<0.000500	U	0.0500	0.05906		mg/L		118	71 - 125
Toluene	<0.000500	U	0.0500	0.05488		mg/L		110	59 - 139
trans-1,2-Dichloroethene	<0.000256	U	0.0500	0.05046		mg/L		101	75 - 125
trans-1,3-Dichloropropene	<0.000752	U	0.0500	0.05154		mg/L		103	66 - 125
1,2,3-Trichlorobenzene	<0.00200	U	0.0500	0.05456		mg/L		109	75 - 137
1,2,4-Trichlorobenzene	<0.00200	U	0.0500	0.05188		mg/L		104	75 - 135
1,1,1-Trichloroethane	<0.000504	U	0.0500	0.05460		mg/L		109	75 - 125
1,1,2-Trichloroethane	<0.000228	U	0.0500	0.05192		mg/L		104	75 - 127
Trichloroethene	<0.000424	U	0.0500	0.05822		mg/L		116	62 - 137
Trichlorofluoromethane	<0.000245	U	0.0500	0.05594		mg/L		112	60 - 140
1,2,3-Trichloropropane	<0.000283	U	0.0500	0.04955		mg/L		99	75 - 125
1,2,4-Trimethylbenzene	<0.000252	U	0.0500	0.05286		mg/L		106	75 - 125
1,3,5-Trimethylbenzene	<0.000279	U	0.0500	0.05281		mg/L		106	70 - 125
Vinyl chloride	<0.000234	U	0.0500	0.04617		mg/L		92	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	96		75 - 131
1,2-Dichloroethane-d4 (Surr)	86		63 - 144
Toluene-d8 (Surr)	95		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-55533/1-A

Matrix: Water

Analysis Batch: 55508

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55533

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		06/03/22 10:59	06/03/22 13:07	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		06/03/22 10:59	06/03/22 13:07	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		06/03/22 10:59	06/03/22 13:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135			06/03/22 10:59	06/03/22 13:07	1
o-Terphenyl	103		70 - 135			06/03/22 10:59	06/03/22 13:07	1

Lab Sample ID: LCS 860-55533/2-A

Matrix: Water

Analysis Batch: 55508

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	100	111.1		mg/L		111	70 - 135
Diesel Range Organics (Over C10-C28)	99.7	96.12		mg/L		96	70 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	92		70 - 135				
o-Terphenyl	97		70 - 135				

Lab Sample ID: LCSD 860-55533/3-A

Matrix: Water

Analysis Batch: 55508

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55533

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	112.4		mg/L		112	70 - 135	1	35
Diesel Range Organics (Over C10-C28)	99.7	98.50		mg/L		99	70 - 135	2	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	93		70 - 135						
o-Terphenyl	98		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-55313/3

Matrix: Water

Analysis Batch: 55313

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200 mg/L			06/02/22 10:51	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/02/22 10:51	1
Sulfate	<0.109	U	0.500	0.109 mg/L			06/02/22 10:51	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-55313/6

Matrix: Water

Analysis Batch: 55313

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	9.572		mg/L		96	90 - 110
Fluoride	10.0	10.04		mg/L		100	90 - 110
Sulfate	10.0	9.616		mg/L		96	90 - 110

Lab Sample ID: LCSD 860-55313/7

Matrix: Water

Analysis Batch: 55313

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.535		mg/L		95	90 - 110	0	20
Fluoride	10.0	10.07		mg/L		101	90 - 110	0	20
Sulfate	10.0	9.593		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-55313/5

Matrix: Water

Analysis Batch: 55313

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	0.5347		mg/L		107	50 - 150
Fluoride	0.500	0.4198	J	mg/L		84	50 - 150
Sulfate	0.500	0.5050		mg/L		101	50 - 150

Lab Sample ID: MB 860-55314/3

Matrix: Water

Analysis Batch: 55314

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			06/02/22 10:51	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/02/22 10:51	1

Lab Sample ID: LCS 860-55314/6

Matrix: Water

Analysis Batch: 55314

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	9.561		mg/L		96	80 - 120
Nitrite as N	5.00	4.699		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-55314/7

Matrix: Water

Analysis Batch: 55314

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	9.550		mg/L		95	80 - 120	0	20
Nitrite as N	5.00	4.724		mg/L		94	80 - 120	1	20

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-55314/4

Matrix: Water

Analysis Batch: 55314

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	0.1149		mg/L		115	50 - 150
Nitrite as N	0.100	0.09456	J	mg/L		95	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-55608/3

Matrix: Water

Analysis Batch: 55608

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			06/03/22 11:55	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/03/22 11:55	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/03/22 11:55	1

Lab Sample ID: LCS 860-55608/4

Matrix: Water

Analysis Batch: 55608

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	261.5		mg/L		105	85 - 115

Lab Sample ID: LCSD 860-55608/5

Matrix: Water

Analysis Batch: 55608

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	254.4		mg/L		102	85 - 115	3	20

Lab Sample ID: 880-15376-1 DU

Matrix: Water

Analysis Batch: 55608

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	240		249.4		mg/L		4	20
Bicarbonate Alkalinity as CaCO3	240		249.4		mg/L		4	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 860-56372/1

Matrix: Water

Analysis Batch: 56372

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			06/07/22 18:00	1

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 55468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15376-1	MW-1	Total/NA	Water	8260C	
880-15376-2	MW-2	Total/NA	Water	8260C	
880-15376-2 - DL	MW-2	Total/NA	Water	8260C	
MB 860-55468/10	Method Blank	Total/NA	Water	8260C	
LCS 860-55468/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-55468/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-15376-1 MS	MW-1	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 55049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15376-1	MW-1	Total/NA	Water	8015 NM	
880-15376-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 55508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-55533/1-A	Method Blank	Total/NA	Water	8015B NM	55533
LCS 860-55533/2-A	Lab Control Sample	Total/NA	Water	8015B NM	55533
LCSD 860-55533/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	55533

Analysis Batch: 55510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15376-1	MW-1	Total/NA	Water	8015B NM	55533
880-15376-2	MW-2	Total/NA	Water	8015B NM	55533

Prep Batch: 55533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15376-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-15376-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-55533/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-55533/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-55533/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 55313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15376-1	MW-1	Total/NA	Water	300.0	
880-15376-2	MW-2	Total/NA	Water	300.0	
MB 860-55313/3	Method Blank	Total/NA	Water	300.0	
LCS 860-55313/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-55313/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-55313/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 55314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15376-1	MW-1	Total/NA	Water	300.0	
880-15376-2	MW-2	Total/NA	Water	300.0	
MB 860-55314/3	Method Blank	Total/NA	Water	300.0	
LCS 860-55314/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-55314/7	Lab Control Sample Dup	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

HPLC/IC (Continued)

Analysis Batch: 55314 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-55314/4	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 55581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15376-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-15376-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 55608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15376-1	MW-1	Total/NA	Water	SM 2320B	
880-15376-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-55608/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-55608/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-55608/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 860-55608/34	Lab Control Sample	Total/NA	Water	SM 2320B	
880-15376-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 56372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15376-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-15376-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-56372/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-56372/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-56372/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-15376-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-15376-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 56436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15376-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-15376-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Eurofins Midland

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-15376-1

Client Sample ID: MW-1

Date Collected: 06/01/22 11:50

Date Received: 06/01/22 16:00

Lab Sample ID: 880-15376-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	55468	06/03/22 11:07	NA	XEN STF
Total/NA	Analysis	8015 NM		1	55049	05/31/22 18:17	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			55533	06/03/22 10:59	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	55510	06/03/22 12:28	SAR	XEN STF
Total/NA	Analysis	300.0		1	55313	06/02/22 20:39	WP	XEN STF
Total/NA	Analysis	300.0		1	55314	06/02/22 20:39	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	55608	06/03/22 12:21	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	56436	06/10/22 11:07	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	55581	06/03/22 15:34	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	56372	06/07/22 18:00	YGG	XEN STF

Client Sample ID: MW-2

Date Collected: 06/01/22 13:00

Date Received: 06/01/22 16:00

Lab Sample ID: 880-15376-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	55468	06/03/22 11:28	NA	XEN STF
Total/NA	Analysis	8260C	DL	5	55468	06/03/22 11:48	NA	XEN STF
Total/NA	Analysis	8015 NM		1	55049	05/31/22 18:17	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			55533	06/03/22 10:59	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	55510	06/03/22 12:47	SAR	XEN STF
Total/NA	Analysis	300.0		1	55313	06/02/22 20:52	WP	XEN STF
Total/NA	Analysis	300.0		1	55314	06/02/22 20:52	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	55608	06/03/22 12:47	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	56436	06/10/22 11:07	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	55581	06/03/22 15:34	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	56372	06/07/22 18:00	YGG	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-15376-1

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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	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

Job ID: 880-15376-1

Project/Site: South Hobbs - 03B1417002

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
SM 4500 S2 F	Sulfide, Total	SM	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Aq Prep	Microextraction	SW846	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

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

Job ID: 880-15376-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-15376-1	MW-1	Water	06/01/22 11:50	06/01/22 16:00
880-15376-2	MW-2	Water	06/01/22 13:00	06/01/22 16:00

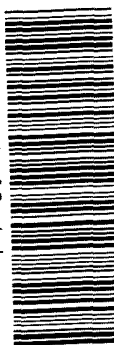
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Houston, TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio, TX (210) 509-3333
Midland, TX (432-704-5440) EL Paso, TX (915)555-3443 Lubbock, TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813) 555-392-7550 Hobbs, NM (505-392-7550)

Chain of Custody

M



880-15376 Chain of Custody

Project Manager	Baux Jennings	Bill to (if different)	
Company Name	Ensolum LLC	Company Name	
Address:	705 W Wadley #210	Address:	
City, State ZIP	Midland TX	City, State ZIP:	
Phone:	432-230-3344	Email	bjennings@ensolum.com

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

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								
			500 CO2 c							
			6.2							
			00							

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	Dissolve	Dissolve	VOC SW	TPH EPA	Chloride	pH EPA	Sample Comments
MW-1	GW	6-1-22	1150			X	X	X	X	X	X	24 Hr
MW-2	GW	6-1-22	1300			X	X	X	X	X	X	
Y SEAL Date: 6-1-22 Signature: <i>[Signature]</i>												

Date. 6-1-23

Signatur

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

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
		02/11/22			
		1600			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-15376-1

Login Number: 15376

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: 880-15376-1

Login Number: 15376

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 06/02/22 04:27 PM

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

ANALYTICAL REPORT

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

Laboratory Job ID: 880-15708-1

Laboratory Sample Delivery Group: Hobbs NM

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

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Authorized for release by:

6/24/2022 8:30:23 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

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

Laboratory Job ID: 880-15708-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum

Job ID: 880-15708-1

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

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
^2	Calibration Blank (ICB and/or CCB) is outside acceptance 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.

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)

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-15708-1
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: 880-15708-1
SDG: Hobbs NM

Job ID: 880-15708-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-15708-1

Receipt

The sample was received on 6/9/2022 3:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-56373 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 860-56391 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The instrument blank for analytical batch 860-56391 contained sulfate greater than the reporting limit (RL), and were not reanalyzed because the concentration of sulfate in the blank was 10x less than that of the concentrations in the samples. 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: 880-15708-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-15708-1

Date Collected: 06/09/22 10:30

Matrix: Water

Date Received: 06/09/22 15:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00228		0.00100	0.000214	mg/L		06/10/22 15:10	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		06/10/22 15:10	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		06/10/22 15:10	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		06/10/22 15:10	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		06/10/22 15:10	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		06/10/22 15:10	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		06/10/22 15:10	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		06/10/22 15:10	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		06/10/22 15:10	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		06/10/22 15:10	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		06/10/22 15:10	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		06/10/22 15:10	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		06/10/22 15:10	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		06/10/22 15:10	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		06/10/22 15:10	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		06/10/22 15:10	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		06/10/22 15:10	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		06/10/22 15:10	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		06/10/22 15:10	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		06/10/22 15:10	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		06/10/22 15:10	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		06/10/22 15:10	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		06/10/22 15:10	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		06/10/22 15:10	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		06/10/22 15:10	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		06/10/22 15:10	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		06/10/22 15:10	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		06/10/22 15:10	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		06/10/22 15:10	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		06/10/22 15:10	1
Ethylbenzene	0.00874		0.00100	0.000515	mg/L		06/10/22 15:10	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		06/10/22 15:10	1
Isopropylbenzene	0.00436		0.00100	0.000161	mg/L		06/10/22 15:10	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		06/10/22 15:10	1
m,p-Xylenes	0.0352		0.0100	0.000330	mg/L		06/10/22 15:10	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		06/10/22 15:10	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		06/10/22 15:10	1
n-Butylbenzene	0.000536	J	0.00100	0.000286	mg/L		06/10/22 15:10	1
N-Propylbenzene	0.00197		0.00100	0.000179	mg/L		06/10/22 15:10	1
o-Xylene	0.00514		0.00100	0.000192	mg/L		06/10/22 15:10	1
p-Cymene (p-Isopropyltoluene)	0.000539	J	0.00100	0.000233	mg/L		06/10/22 15:10	1
sec-Butylbenzene	0.000776	J	0.00100	0.000199	mg/L		06/10/22 15:10	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		06/10/22 15:10	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		06/10/22 15:10	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		06/10/22 15:10	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		06/10/22 15:10	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		06/10/22 15:10	1
Toluene	0.0182		0.00100	0.000500	mg/L		06/10/22 15:10	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		06/10/22 15:10	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-15708-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-15708-1

Date Collected: 06/09/22 10:30

Matrix: Water

Date Received: 06/09/22 15:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/10/22 15:10	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 15:10	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 15:10	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/10/22 15:10	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/10/22 15:10	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/10/22 15:10	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/10/22 15:10	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/10/22 15:10	1
1,2,4-Trimethylbenzene	0.00847		0.00100	0.000252 mg/L			06/10/22 15:10	1
1,3,5-Trimethylbenzene	0.00271		0.00100	0.000279 mg/L			06/10/22 15:10	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/10/22 15:10	1
Xylenes, Total	0.0403		0.0100	0.000330 mg/L			06/10/22 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		06/10/22 15:10	1
Dibromofluoromethane (Surr)	96		75 - 131		06/10/22 15:10	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		06/10/22 15:10	1
Toluene-d8 (Surr)	100		80 - 117		06/10/22 15:10	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.395	J	0.500	0.0711 mg/L			06/10/22 16:19	1
Nitrate as N	0.0721	J	0.100	0.0391 mg/L			06/10/22 16:19	1
Chloride	215		0.500	0.200 mg/L			06/10/22 16:19	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/10/22 16:19	1
Fluoride	0.332	J	0.500	0.100 mg/L			06/10/22 16:19	1
Sulfate	44.2	^2	0.500	0.109 mg/L			06/10/22 16:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	295		10.0	1.47 mg/L		06/13/22 12:30	06/15/22 14:05	50
Magnesium	53.3		0.200	0.0500 mg/L		06/13/22 12:30	06/15/22 13:47	1
Potassium	4.27		0.500	0.107 mg/L		06/13/22 12:30	06/15/22 13:47	1
Sodium	80.9		0.500	0.0667 mg/L		06/13/22 12:30	06/15/22 13:47	1
SiO2	70.5	B	1.07	0.0781 mg/L		06/13/22 12:30	06/15/22 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-1.83			%			06/10/22 11:09	1
Alkalinity	712		4.00	4.00 mg/L			06/11/22 13:04	1
Bicarbonate Alkalinity as CaCO3	712		4.00	4.00 mg/L			06/11/22 13:04	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/11/22 13:04	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			06/11/22 13:04	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			06/11/22 13:04	1
Total Dissolved Solids	1170		10.0	10.0 mg/L			06/10/22 17:02	1
pH	6.3	HF		SU			06/10/22 17:40	1
Temperature	19.7	HF		Degrees C			06/10/22 17:40	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-15708-1
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)	(80-117)
860-27670-B-3 MS	Matrix Spike	98	97	102	98
880-15708-1	Levey Well	100	96	107	100
LCS 860-56373/3	Lab Control Sample	99	98	101	97
LCSD 860-56373/4	Lab Control Sample Dup	100	98	101	99
MB 860-56373/10	Method Blank	98	101	106	99
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-15708-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-56373/10

Matrix: Water

Analysis Batch: 56373

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/10/22 10:22	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/10/22 10:22	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/10/22 10:22	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/10/22 10:22	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/10/22 10:22	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/10/22 10:22	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/10/22 10:22	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/10/22 10:22	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/10/22 10:22	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/10/22 10:22	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/10/22 10:22	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/10/22 10:22	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/10/22 10:22	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/10/22 10:22	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/10/22 10:22	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/10/22 10:22	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/10/22 10:22	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/10/22 10:22	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/10/22 10:22	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/10/22 10:22	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/10/22 10:22	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/10/22 10:22	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/10/22 10:22	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/10/22 10:22	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/10/22 10:22	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/10/22 10:22	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/10/22 10:22	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/10/22 10:22	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/10/22 10:22	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/10/22 10:22	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/10/22 10:22	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 10:22	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/10/22 10:22	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/10/22 10:22	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/10/22 10:22	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/10/22 10:22	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/10/22 10:22	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/10/22 10:22	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/10/22 10:22	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/10/22 10:22	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/10/22 10:22	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/10/22 10:22	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/10/22 10:22	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/10/22 10:22	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/10/22 10:22	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/10/22 10:22	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/10/22 10:22	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/10/22 10:22	1

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QC Sample Results

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

Job ID: 880-15708-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-56373/10

Matrix: Water

Analysis Batch: 56373

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	<0.000256	U	0.00100	0.000256 mg/L			06/10/22 10:22	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/10/22 10:22	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 10:22	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 10:22	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/10/22 10:22	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/10/22 10:22	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/10/22 10:22	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/10/22 10:22	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/10/22 10:22	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			06/10/22 10:22	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			06/10/22 10:22	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/10/22 10:22	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			06/10/22 10:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		06/10/22 10:22	1
Dibromofluoromethane (Surr)	101		75 - 131		06/10/22 10:22	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		06/10/22 10:22	1
Toluene-d8 (Surr)	99		80 - 117		06/10/22 10:22	1

Lab Sample ID: LCS 860-56373/3

Matrix: Water

Analysis Batch: 56373

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	0.05245		mg/L		105	66 - 142
Bromobenzene	0.0500	0.05363		mg/L		107	75 - 125
Bromochloromethane	0.0500	0.05210		mg/L		104	60 - 140
Bromodichloromethane	0.0500	0.05420		mg/L		108	75 - 125
Bromoform	0.0500	0.05603		mg/L		112	75 - 125
Bromomethane	0.0500	0.05313		mg/L		106	60 - 140
2-Butanone	0.250	0.2235		mg/L		89	60 - 140
Carbon tetrachloride	0.0500	0.05738		mg/L		115	62 - 125
Chlorobenzene	0.0500	0.05421		mg/L		108	60 - 133
Chloroethane	0.0500	0.04372		mg/L		87	60 - 140
Chloroform	0.0500	0.05324		mg/L		106	70 - 130
Chloromethane	0.0500	0.04622		mg/L		92	60 - 140
2-Chlorotoluene	0.0500	0.05432		mg/L		109	73 - 125
4-Chlorotoluene	0.0500	0.05489		mg/L		110	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05165		mg/L		103	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05316		mg/L		106	74 - 125
Dibromochloromethane	0.0500	0.05526		mg/L		111	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05273		mg/L		105	59 - 125
1,2-Dibromoethane	0.0500	0.05282		mg/L		106	73 - 125
1,2-Dichlorobenzene	0.0500	0.05425		mg/L		108	75 - 125
1,3-Dichlorobenzene	0.0500	0.05458		mg/L		109	75 - 125
1,4-Dichlorobenzene	0.0500	0.05365		mg/L		107	75 - 125
Dichlorodifluoromethane	0.0500	0.05929		mg/L		119	70 - 130

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QC Sample Results

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

Job ID: 880-15708-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-56373/3

Matrix: Water

Analysis Batch: 56373

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	0.04670		mg/L		93	72 - 125
1,2-Dichloroethane	0.0500	0.05412		mg/L		108	68 - 127
1,1-Dichloroethene	0.0500	0.05275		mg/L		106	59 - 172
1,2-Dichloropropane	0.0500	0.04914		mg/L		98	74 - 125
1,3-Dichloropropane	0.0500	0.04942		mg/L		99	75 - 125
2,2-Dichloropropane	0.0500	0.05759		mg/L		115	75 - 125
1,1-Dichloropropene	0.0500	0.05511		mg/L		110	75 - 125
Ethylbenzene	0.0500	0.05586		mg/L		112	75 - 125
Hexachlorobutadiene	0.0500	0.06032		mg/L		121	75 - 125
Isopropylbenzene	0.0500	0.05898		mg/L		118	75 - 125
Methylene Chloride	0.0500	0.04539		mg/L		91	75 - 125
m,p-Xylenes	0.0500	0.05778		mg/L		116	75 - 125
MTBE	0.0500	0.04551		mg/L		91	65 - 135
Naphthalene	0.0500	0.05441		mg/L		109	70 - 130
n-Butylbenzene	0.0500	0.05673		mg/L		113	75 - 125
N-Propylbenzene	0.0500	0.05519		mg/L		110	75 - 125
o-Xylene	0.0500	0.05691		mg/L		114	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05829		mg/L		117	75 - 125
sec-Butylbenzene	0.0500	0.05745		mg/L		115	75 - 125
Styrene	0.0500	0.05768		mg/L		115	75 - 125
tert-Butylbenzene	0.0500	0.05776		mg/L		116	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05546		mg/L		111	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04666		mg/L		93	74 - 125
Tetrachloroethene	0.0500	0.05843		mg/L		117	71 - 125
Toluene	0.0500	0.05354		mg/L		107	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05002		mg/L		100	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05299		mg/L		106	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05649		mg/L		113	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05549		mg/L		111	75 - 135
1,1,1-Trichloroethane	0.0500	0.05658		mg/L		113	75 - 125
1,1,2-Trichloroethane	0.0500	0.04905		mg/L		98	75 - 127
Trichloroethene	0.0500	0.05641		mg/L		113	62 - 137
Trichlorofluoromethane	0.0500	0.05215		mg/L		104	60 - 140
1,2,3-Trichloropropane	0.0500	0.04706		mg/L		94	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05726		mg/L		115	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05635		mg/L		113	60 - 140
Vinyl chloride	0.0500	0.04606		mg/L		92	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-15708-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-56373/4

Matrix: Water

Analysis Batch: 56373

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	0.05040		mg/L		101	66 - 142	4	25
Bromobenzene	0.0500	0.05365		mg/L		107	75 - 125	0	25
Bromochloromethane	0.0500	0.05153		mg/L		103	60 - 140	1	25
Bromodichloromethane	0.0500	0.05216		mg/L		104	75 - 125	4	25
Bromoform	0.0500	0.05466		mg/L		109	75 - 125	2	25
Bromomethane	0.0500	0.04322		mg/L		86	60 - 140	21	25
2-Butanone	0.250	0.2223		mg/L		89	60 - 140	1	25
Carbon tetrachloride	0.0500	0.05369		mg/L		107	62 - 125	7	25
Chlorobenzene	0.0500	0.05214		mg/L		104	60 - 133	4	25
Chloroethane	0.0500	0.04464		mg/L		89	60 - 140	2	25
Chloroform	0.0500	0.05147		mg/L		103	70 - 130	3	25
Chloromethane	0.0500	0.04167		mg/L		83	60 - 140	10	25
2-Chlorotoluene	0.0500	0.05294		mg/L		106	73 - 125	3	25
4-Chlorotoluene	0.0500	0.05405		mg/L		108	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.04795		mg/L		96	75 - 125	7	25
cis-1,3-Dichloropropene	0.0500	0.05255		mg/L		105	74 - 125	1	25
Dibromochloromethane	0.0500	0.05304		mg/L		106	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04796		mg/L		96	59 - 125	9	25
1,2-Dibromoethane	0.0500	0.05221		mg/L		104	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05318		mg/L		106	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.05358		mg/L		107	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.05337		mg/L		107	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.05686		mg/L		114	70 - 130	4	25
1,1-Dichloroethane	0.0500	0.04390		mg/L		88	72 - 125	6	25
1,2-Dichloroethane	0.0500	0.05319		mg/L		106	68 - 127	2	25
1,1-Dichloroethene	0.0500	0.04784		mg/L		96	59 - 172	10	25
1,2-Dichloropropane	0.0500	0.04860		mg/L		97	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04952		mg/L		99	75 - 125	0	25
2,2-Dichloropropane	0.0500	0.05397		mg/L		108	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.05079		mg/L		102	75 - 125	8	25
Ethylbenzene	0.0500	0.05299		mg/L		106	75 - 125	5	25
Hexachlorobutadiene	0.0500	0.05325		mg/L		107	75 - 125	12	25
Isopropylbenzene	0.0500	0.05550		mg/L		111	75 - 125	6	25
Methylene Chloride	0.0500	0.04270		mg/L		85	75 - 125	6	25
m,p-Xylenes	0.0500	0.05376		mg/L		108	75 - 125	7	25
MTBE	0.0500	0.04493		mg/L		90	65 - 135	1	25
Naphthalene	0.0500	0.04621		mg/L		92	70 - 130	16	25
n-Butylbenzene	0.0500	0.05455		mg/L		109	75 - 125	4	25
N-Propylbenzene	0.0500	0.05419		mg/L		108	75 - 125	2	25
o-Xylene	0.0500	0.05400		mg/L		108	75 - 125	5	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05663		mg/L		113	75 - 125	3	25
sec-Butylbenzene	0.0500	0.05470		mg/L		109	75 - 125	5	25
Styrene	0.0500	0.05490		mg/L		110	75 - 125	5	25
tert-Butylbenzene	0.0500	0.05653		mg/L		113	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.05306		mg/L		106	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.04806		mg/L		96	74 - 125	3	25
Tetrachloroethene	0.0500	0.05561		mg/L		111	71 - 125	5	25
Toluene	0.0500	0.05178		mg/L		104	59 - 139	3	25

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QC Sample Results

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

Job ID: 880-15708-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-56373/4

Matrix: Water

Analysis Batch: 56373

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	0.04585		mg/L		92	75 - 125	9	25
trans-1,3-Dichloropropene	0.0500	0.05135		mg/L		103	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.04715		mg/L		94	75 - 137	18	25
1,2,4-Trichlorobenzene	0.0500	0.05062		mg/L		101	75 - 135	9	25
1,1,1-Trichloroethane	0.0500	0.05369		mg/L		107	75 - 125	5	25
1,1,2-Trichloroethane	0.0500	0.04784		mg/L		96	75 - 127	2	25
Trichloroethene	0.0500	0.05430		mg/L		109	62 - 137	4	25
Trichlorofluoromethane	0.0500	0.05070		mg/L		101	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.05153		mg/L		103	75 - 125	9	25
1,2,4-Trimethylbenzene	0.0500	0.05530		mg/L		111	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05523		mg/L		110	60 - 140	2	25
Vinyl chloride	0.0500	0.04397		mg/L		88	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-56391/3

Matrix: Water

Analysis Batch: 56391

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			06/10/22 09:28	1
Chloride	<0.200	U	0.500	0.200 mg/L			06/10/22 09:28	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/10/22 09:28	1
Sulfate	<0.109	U	0.500	0.109 mg/L			06/10/22 09:28	1

Lab Sample ID: LCS 860-56391/6

Matrix: Water

Analysis Batch: 56391

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	10.14		mg/L		101	90 - 110
Chloride	10.0	9.872		mg/L		99	90 - 110
Fluoride	10.0	10.45		mg/L		105	90 - 110
Sulfate	10.0	9.908		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-56391/7

Matrix: Water

Analysis Batch: 56391

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	10.18		mg/L		102	90 - 110	0	20
Chloride	10.0	9.873		mg/L		99	90 - 110	0	20
Fluoride	10.0	10.49		mg/L		105	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-15708-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-56391/7

Matrix: Water

Analysis Batch: 56391

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	9.919		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-56391/5

Matrix: Water

Analysis Batch: 56391

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	0.4690	J	mg/L		94	50 - 150		
Chloride	0.500	0.5494		mg/L		110	50 - 150		
Fluoride	0.500	0.4208	J	mg/L		84	50 - 150		
Sulfate	0.500	0.5058		mg/L		101	50 - 150		

Lab Sample ID: MB 860-56392/3

Matrix: Water

Analysis Batch: 56392

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			06/10/22 09:28	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/10/22 09:28	1

Lab Sample ID: LCS 860-56392/6

Matrix: Water

Analysis Batch: 56392

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	10.09		mg/L		101	80 - 120		
Nitrite as N	5.00	5.215		mg/L		104	80 - 120		

Lab Sample ID: LCSD 860-56392/7

Matrix: Water

Analysis Batch: 56392

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	10.10		mg/L		101	80 - 120	0	20
Nitrite as N	5.00	5.245		mg/L		105	80 - 120	1	20

Lab Sample ID: LLCS 860-56392/4

Matrix: Water

Analysis Batch: 56392

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	0.1188		mg/L		119	50 - 150		
Nitrite as N	0.100	0.09638	J	mg/L		96	50 - 150		

Eurofins Midland

QC Sample Results

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

Job ID: 880-15708-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-56679/1-A

Matrix: Water

Analysis Batch: 57122

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 56679

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		06/13/22 12:30	06/15/22 13:36	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		06/13/22 12:30	06/15/22 13:36	1
Potassium	<0.107	U	0.500	0.107 mg/L		06/13/22 12:30	06/15/22 13:36	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		06/13/22 12:30	06/15/22 13:36	1
SiO2	0.08392	J	1.07	0.0781 mg/L		06/13/22 12:30	06/15/22 13:36	1

Lab Sample ID: LCS 860-56679/2-A

Matrix: Water

Analysis Batch: 57122

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 56679

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	26.69		mg/L		107	85 - 115
Magnesium	25.0	25.85		mg/L		103	85 - 115
Potassium	10.0	10.64		mg/L		106	85 - 115
Sodium	25.0	25.97		mg/L		104	85 - 115
SiO2	21.4	23.32		mg/L		109	85 - 115

Lab Sample ID: LCSD 860-56679/3-A

Matrix: Water

Analysis Batch: 57122

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 56679

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	26.20		mg/L		105	85 - 115	2	20
Magnesium	25.0	25.39		mg/L		102	85 - 115	2	20
Potassium	10.0	10.44		mg/L		104	85 - 115	2	20
Sodium	25.0	25.50		mg/L		102	85 - 115	2	20
SiO2	21.4	22.55		mg/L		105	85 - 115	3	20

Lab Sample ID: LLCS 860-56679/4-A

Matrix: Water

Analysis Batch: 57122

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 56679

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2815		mg/L		141	50 - 150
Magnesium	0.200	0.1608	J	mg/L		80	50 - 150
Potassium	0.500	0.5705		mg/L		114	50 - 150
Sodium	0.500	0.4960	J	mg/L		99	50 - 150
SiO2	1.07	1.176		mg/L		110	50 - 150

Lab Sample ID: 880-15708-1 MS

Matrix: Water

Analysis Batch: 57122

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 56679

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	53.3		25.0	78.70		mg/L		102	70 - 130
Potassium	4.27		10.0	15.43		mg/L		112	70 - 130
Sodium	80.9		25.0	107.0		mg/L		104	70 - 130
SiO2	70.5	B	21.4	94.53		mg/L		112	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-15708-1
SDG: Hobbs NM

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

Lab Sample ID: 880-15708-1 MSD

Matrix: Water

Analysis Batch: 57122

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 56679

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	53.3		25.0	78.96		mg/L		103	70 - 130	0	20
Potassium	4.27		10.0	15.49		mg/L		112	70 - 130	0	20
Sodium	80.9		25.0	107.5		mg/L		106	70 - 130	0	20
SiO2	70.5	B	21.4	94.70		mg/L		113	70 - 130	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-56655/9

Matrix: Water

Analysis Batch: 56655

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			06/11/22 12:17	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/11/22 12:17	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/11/22 12:17	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			06/11/22 12:17	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			06/11/22 12:17	1

Lab Sample ID: LCS 860-56655/10

Matrix: Water

Analysis Batch: 56655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	252.2		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-56655/11

Matrix: Water

Analysis Batch: 56655

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	252.3		mg/L		101	85 - 115	0	20

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

Lab Sample ID: MB 860-56522/1

Matrix: Water

Analysis Batch: 56522

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			06/10/22 17:02	1

Lab Sample ID: LCS 860-56522/2

Matrix: Water

Analysis Batch: 56522

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	1083		mg/L		108	80 - 120

Eurofins Midland

QC Sample Results

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

Job ID: 880-15708-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-56522/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 56522											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1010		mg/L		101	80 - 120	7	10

Lab Sample ID: LLCS 860-56522/4				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 56522											
Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	<5.00	U	mg/L		60	50 - 150		

Lab Sample ID: 880-15708-1 DU				Client Sample ID: Levey Well							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 56522											
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1170			1142		mg/L				2	10

QC Association Summary

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

Job ID: 880-15708-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 56373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15708-1	Levey Well	Total/NA	Water	8260C	
MB 860-56373/10	Method Blank	Total/NA	Water	8260C	
LCS 860-56373/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-56373/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 56391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15708-1	Levey Well	Total/NA	Water	300.0	
MB 860-56391/3	Method Blank	Total/NA	Water	300.0	
LCS 860-56391/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-56391/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-56391/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 56392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15708-1	Levey Well	Total/NA	Water	300.0	
MB 860-56392/3	Method Blank	Total/NA	Water	300.0	
LCS 860-56392/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-56392/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-56392/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 56679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15708-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-56679/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-56679/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-56679/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-56679/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-15708-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-15708-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 57122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15708-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	56679
880-15708-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	56679
MB 860-56679/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	56679
LCS 860-56679/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	56679
LCSD 860-56679/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	56679
LLCS 860-56679/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	56679
880-15708-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	56679
880-15708-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	56679

General Chemistry

Analysis Batch: 56438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15708-1	Levey Well	Total/NA	Water	SM 1030E	

Eurofins Midland

QC Association Summary

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

Job ID: 880-15708-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 56522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15708-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-56522/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-56522/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-56522/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-56522/4	Lab Control Sample	Total/NA	Water	SM 2540C	
880-15708-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 56542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15708-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 56655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15708-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-56655/9	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-56655/10	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-56655/11	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

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

Job ID: 880-15708-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-15708-1
Date Collected: 06/09/22 10:30 Matrix: Water
Date Received: 06/09/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	56373	06/10/22 15:10	NA	XEN STF
Total/NA	Analysis	300.0		1	56391	06/10/22 16:19	ANP	XEN STF
Total/NA	Analysis	300.0		1	56392	06/10/22 16:19	ANP	XEN STF
Total Recoverable	Prep	200.7			56679	06/13/22 12:30	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	57122	06/15/22 13:47	AV	XEN STF
Total Recoverable	Prep	200.7			56679	06/13/22 12:30	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	57122	06/15/22 14:05	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	56438	06/10/22 11:09	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	56655	06/11/22 13:04	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	56522	06/10/22 17:02	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	56542	06/10/22 17:40	TL	XEN STF

Laboratory References:
XEN STF = 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: 880-15708-1
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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
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: 880-15708-1
SDG: Hobbs NM

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

Protocol References:
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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:
XEN STF = 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: 880-15708-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-15708-1	Levey Well	Water	06/09/22 10:30	06/09/22 15:45

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



Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 382-7550 Phoenix, AZ (480) 355-0900 Atlanta GA (770) 449-8800 Tampa FL (813) 820-2000

Work Order No: 15708

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #240	Address:	
City, State ZIP:	Midland TX	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

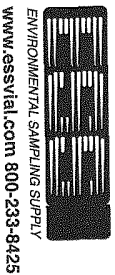
Project Name:	Levey Well	Hobbs NM	Turn Around
Project Number:	03B1417001		Routine ☐
P.O. Number:	03B1417001		Rush 24 Hr
Sampler's Name:	Shane Diller		Due Date

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	23.21			Thermometer ID		
Received Intact:	(Yes) No			Correction Factor:		
Cooler Custody Seals:	Yes No	(N/A)		Total Containers:		
Sample Custody Seals:	Yes No	(N/A)				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
Levey Well	GW	6-9-22	1036	-

ANALYSIS REQUEST		Work Order Notes	
Number of Containers			
VOCs	X		
Anions: F, Cl, SO4, B	X		
Cations: Ca, K, Mg, Na, Si	X		
pH	X		
Alkalinity	X		
TDS	X		
		TAT starts the day received by the lab if received by 4 30pm	
		Sample Comments	
		24 Hr	

CUSTODY SEAL



ENVIRONMENTAL SAMPLING SUPPLY
www.essvial.com 800-233-8425

Date: 6-9-22

Signature: [Signature]

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

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
[Signature]	[Signature]	6/9/22	[Signature]	[Signature]	15:45

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-15708-1

SDG Number: Hobbs NM

Login Number: 15708

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: 880-15708-1

SDG Number: Hobbs NM

Login Number: 15708

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 06/10/22 12:20 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 America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-15707-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

6/24/2022 8:30:01 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-15707-1

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Definitions/Glossary

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
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.
H	Sample was prepped or analyzed beyond the specified holding time
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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

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Definitions/Glossary

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

Job ID: 880-15707-1

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

- 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: 880-15707-1

Job ID: 880-15707-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-15707-1

Receipt

The samples were received on 6/9/2022 3:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-56373 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 instrument blank for analytical batch 860-56391 contained sulfate greater than the reporting limit (RL), and were not reanalyzed because the concentration of sulfate in the blank was 10x less than that of the concentrations in the samples. The data have been qualified and reported.

Method 300_ORGFMS: The following samples have failing QC and have been reported secondary in order to provide the in hold data. The in hold data matches the out of hold data. MW-1 (880-15707-1), (880-15707-H-1 MS) and (880-15707-H-1 MSD)

Method 300_ORGFMS: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to QC failure. The in hold data matches the out of hold data. : MW-1 (880-15707-1).

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: 880-15707-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-15707-1

Date Collected: 06/09/22 11:30

Matrix: Water

Date Received: 06/09/22 15:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/10/22 14:08	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/10/22 14:08	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/10/22 14:08	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/10/22 14:08	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/10/22 14:08	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/10/22 14:08	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/10/22 14:08	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/10/22 14:08	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/10/22 14:08	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/10/22 14:08	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/10/22 14:08	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/10/22 14:08	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/10/22 14:08	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/10/22 14:08	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/10/22 14:08	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/10/22 14:08	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/10/22 14:08	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/10/22 14:08	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/10/22 14:08	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/10/22 14:08	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/10/22 14:08	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/10/22 14:08	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/10/22 14:08	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/10/22 14:08	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/10/22 14:08	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/10/22 14:08	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/10/22 14:08	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/10/22 14:08	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/10/22 14:08	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/10/22 14:08	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/10/22 14:08	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 14:08	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/10/22 14:08	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/10/22 14:08	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/10/22 14:08	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/10/22 14:08	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/10/22 14:08	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/10/22 14:08	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/10/22 14:08	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/10/22 14:08	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/10/22 14:08	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/10/22 14:08	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/10/22 14:08	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/10/22 14:08	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/10/22 14:08	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/10/22 14:08	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/10/22 14:08	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/10/22 14:08	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			06/10/22 14:08	1

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Client Sample Results

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-15707-1

Date Collected: 06/09/22 11:30

Matrix: Water

Date Received: 06/09/22 15:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/10/22 14:08	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 14:08	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 14:08	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/10/22 14:08	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/10/22 14:08	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/10/22 14:08	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/10/22 14:08	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/10/22 14:08	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			06/10/22 14:08	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			06/10/22 14:08	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/10/22 14:08	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			06/10/22 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		06/10/22 14:08	1
Dibromofluoromethane (Surr)	101		75 - 131		06/10/22 14:08	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		06/10/22 14:08	1
Toluene-d8 (Surr)	101		80 - 117		06/10/22 14:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.962	U	4.87	0.962 mg/L			06/10/22 18:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.962	U	4.87	0.962 mg/L		06/10/22 15:56	06/10/22 19:20	1
Diesel Range Organics (Over C10-C28)	<0.962	U	4.87	0.962 mg/L		06/10/22 15:56	06/10/22 19:20	1
Oil Range Organics (Over C28-C36)	<0.929	U	4.87	0.929 mg/L		06/10/22 15:56	06/10/22 19:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135			06/10/22 15:56	06/10/22 19:20	1
o-Terphenyl	98		70 - 135			06/10/22 15:56	06/10/22 19:20	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.9		0.500	0.200 mg/L			06/12/22 06:00	1
Nitrate as N	<0.0391	U H	0.100	0.0391 mg/L			06/12/22 06:00	1
Fluoride	0.743		0.500	0.100 mg/L			06/12/22 06:00	1
Nitrite as N	<0.0293	U H	0.100	0.0293 mg/L			06/12/22 06:00	1
Sulfate	46.6		0.500	0.109 mg/L			06/12/22 06:00	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	246		4.00	4.00 mg/L			06/11/22 12:44	1
Bicarbonate Alkalinity as CaCO3	246		4.00	4.00 mg/L			06/11/22 12:44	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/11/22 12:44	1
Carbon dioxide	241			mg/L			06/23/22 20:38	1
Carbon Dioxide, Free	24.6			mg/L			06/23/22 20:38	1
pH	7.1	HF		SU			06/10/22 17:35	1

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Client Sample Results

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-15707-1

Date Collected: 06/09/22 11:30

Matrix: Water

Date Received: 06/09/22 15:45

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	20.3	HF		Degrees C			06/10/22 17:35	1
Sulfide	0.600	J	5.00	0.495 mg/L			06/13/22 21:59	1

Client Sample ID: MW-2

Lab Sample ID: 880-15707-2

Date Collected: 06/09/22 12:35

Matrix: Water

Date Received: 06/09/22 15:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0194		0.00100	0.000214 mg/L			06/10/22 14:29	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/10/22 14:29	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/10/22 14:29	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/10/22 14:29	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/10/22 14:29	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/10/22 14:29	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/10/22 14:29	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/10/22 14:29	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/10/22 14:29	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/10/22 14:29	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/10/22 14:29	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/10/22 14:29	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/10/22 14:29	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/10/22 14:29	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/10/22 14:29	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/10/22 14:29	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/10/22 14:29	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/10/22 14:29	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/10/22 14:29	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/10/22 14:29	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/10/22 14:29	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/10/22 14:29	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/10/22 14:29	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/10/22 14:29	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/10/22 14:29	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/10/22 14:29	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/10/22 14:29	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/10/22 14:29	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/10/22 14:29	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/10/22 14:29	1
Ethylbenzene	0.0228		0.00100	0.000515 mg/L			06/10/22 14:29	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 14:29	1
Isopropylbenzene	0.0108		0.00100	0.000161 mg/L			06/10/22 14:29	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/10/22 14:29	1
m,p-Xylenes	0.118		0.0100	0.000330 mg/L			06/10/22 14:29	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/10/22 14:29	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/10/22 14:29	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/10/22 14:29	1
N-Propylbenzene	0.00304		0.00100	0.000179 mg/L			06/10/22 14:29	1
o-Xylene	0.0102		0.00100	0.000192 mg/L			06/10/22 14:29	1
p-Cymene (p-Isopropyltoluene)	0.00104		0.00100	0.000233 mg/L			06/10/22 14:29	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-15707-2

Date Collected: 06/09/22 12:35

Matrix: Water

Date Received: 06/09/22 15:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.00124		0.00100	0.000199 mg/L			06/10/22 14:29	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/10/22 14:29	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/10/22 14:29	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/10/22 14:29	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/10/22 14:29	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/10/22 14:29	1
Toluene	0.00241		0.00100	0.000500 mg/L			06/10/22 14:29	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			06/10/22 14:29	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/10/22 14:29	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 14:29	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 14:29	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/10/22 14:29	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/10/22 14:29	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/10/22 14:29	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/10/22 14:29	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/10/22 14:29	1
1,2,4-Trimethylbenzene	0.0356		0.00100	0.000252 mg/L			06/10/22 14:29	1
1,3,5-Trimethylbenzene	0.00926		0.00100	0.000279 mg/L			06/10/22 14:29	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/10/22 14:29	1
Xylenes, Total	0.128		0.0100	0.000330 mg/L			06/10/22 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		06/10/22 14:29	1
Dibromofluoromethane (Surr)	97		75 - 131		06/10/22 14:29	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		06/10/22 14:29	1
Toluene-d8 (Surr)	99		80 - 117		06/10/22 14:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.23	J	4.75	0.938 mg/L			06/10/22 18:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.23	J	4.75	0.938 mg/L		06/10/22 15:56	06/10/22 19:40	1
Diesel Range Organics (Over C10-C28)	<0.938	U	4.75	0.938 mg/L		06/10/22 15:56	06/10/22 19:40	1
Oil Range Organics (Over C28-C36)	<0.905	U	4.75	0.905 mg/L		06/10/22 15:56	06/10/22 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 135	06/10/22 15:56	06/10/22 19:40	1
o-Terphenyl	83		70 - 135	06/10/22 15:56	06/10/22 19:40	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		0.500	0.200 mg/L			06/10/22 15:54	1
Nitrate as N	0.330		0.100	0.0391 mg/L			06/10/22 15:54	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/10/22 15:54	1
Nitrite as N	0.236		0.100	0.0293 mg/L			06/10/22 15:54	1
Sulfate	103	^2	0.500	0.109 mg/L			06/10/22 15:54	1

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Client Sample Results

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

Job ID: 880-15707-1

Client Sample ID: MW-2
Date Collected: 06/09/22 12:35
Date Received: 06/09/22 15:45

Lab Sample ID: 880-15707-2
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1320		4.00	4.00	mg/L			06/11/22 13:21	1
Bicarbonate Alkalinity as CaCO3	1320		4.00	4.00	mg/L			06/11/22 13:21	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			06/11/22 13:21	1
Carbon dioxide	2240				mg/L			06/23/22 20:38	1
Carbon Dioxide, Free	1080				mg/L			06/23/22 20:38	1
pH	6.2	HF			SU			06/10/22 17:38	1
Temperature	19.8	HF			Degrees C			06/10/22 17:38	1
Sulfide	<0.495	U	5.00	0.495	mg/L			06/13/22 21:59	1

Surrogate Summary

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

Job ID: 880-15707-1

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)
860-27670-B-3 MS	Matrix Spike	98	97	102	98
880-15707-1	MW-1	101	101	108	101
880-15707-2	MW-2	96	97	107	99
LCS 860-56373/3	Lab Control Sample	99	98	101	97
LCSD 860-56373/4	Lab Control Sample Dup	100	98	101	99
MB 860-56373/10	Method Blank	98	101	106	99
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-15707-1	MW-1	95	98
880-15707-2	MW-2	79	83
LCS 860-56496/2-A	Lab Control Sample	118	102
LCSD 860-56496/3-A	Lab Control Sample Dup	114	99
MB 860-56496/1-A	Method Blank	111	116
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-56373/10

Matrix: Water

Analysis Batch: 56373

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/10/22 10:22	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/10/22 10:22	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/10/22 10:22	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/10/22 10:22	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/10/22 10:22	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/10/22 10:22	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/10/22 10:22	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/10/22 10:22	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/10/22 10:22	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/10/22 10:22	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/10/22 10:22	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/10/22 10:22	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/10/22 10:22	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/10/22 10:22	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/10/22 10:22	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/10/22 10:22	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/10/22 10:22	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/10/22 10:22	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/10/22 10:22	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/10/22 10:22	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/10/22 10:22	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/10/22 10:22	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/10/22 10:22	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/10/22 10:22	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/10/22 10:22	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/10/22 10:22	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/10/22 10:22	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/10/22 10:22	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/10/22 10:22	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/10/22 10:22	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/10/22 10:22	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 10:22	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/10/22 10:22	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/10/22 10:22	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/10/22 10:22	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/10/22 10:22	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/10/22 10:22	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/10/22 10:22	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/10/22 10:22	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/10/22 10:22	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/10/22 10:22	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/10/22 10:22	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/10/22 10:22	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/10/22 10:22	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/10/22 10:22	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/10/22 10:22	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/10/22 10:22	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/10/22 10:22	1

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QC Sample Results

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-56373/10

Matrix: Water

Analysis Batch: 56373

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	<0.000256	U	0.00100	0.000256 mg/L			06/10/22 10:22	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/10/22 10:22	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 10:22	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/10/22 10:22	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/10/22 10:22	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/10/22 10:22	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/10/22 10:22	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/10/22 10:22	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/10/22 10:22	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			06/10/22 10:22	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			06/10/22 10:22	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/10/22 10:22	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			06/10/22 10:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		06/10/22 10:22	1
Dibromofluoromethane (Surr)	101		75 - 131		06/10/22 10:22	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		06/10/22 10:22	1
Toluene-d8 (Surr)	99		80 - 117		06/10/22 10:22	1

Lab Sample ID: LCS 860-56373/3

Matrix: Water

Analysis Batch: 56373

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	0.05245		mg/L		105	66 - 142
Bromobenzene	0.0500	0.05363		mg/L		107	75 - 125
Bromochloromethane	0.0500	0.05210		mg/L		104	60 - 140
Bromodichloromethane	0.0500	0.05420		mg/L		108	75 - 125
Bromoform	0.0500	0.05603		mg/L		112	75 - 125
Bromomethane	0.0500	0.05313		mg/L		106	60 - 140
2-Butanone	0.250	0.2235		mg/L		89	60 - 140
Carbon tetrachloride	0.0500	0.05738		mg/L		115	62 - 125
Chlorobenzene	0.0500	0.05421		mg/L		108	60 - 133
Chloroethane	0.0500	0.04372		mg/L		87	60 - 140
Chloroform	0.0500	0.05324		mg/L		106	70 - 130
Chloromethane	0.0500	0.04622		mg/L		92	60 - 140
2-Chlorotoluene	0.0500	0.05432		mg/L		109	73 - 125
4-Chlorotoluene	0.0500	0.05489		mg/L		110	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05165		mg/L		103	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05316		mg/L		106	74 - 125
Dibromochloromethane	0.0500	0.05526		mg/L		111	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05273		mg/L		105	59 - 125
1,2-Dibromoethane	0.0500	0.05282		mg/L		106	73 - 125
1,2-Dichlorobenzene	0.0500	0.05425		mg/L		108	75 - 125
1,3-Dichlorobenzene	0.0500	0.05458		mg/L		109	75 - 125
1,4-Dichlorobenzene	0.0500	0.05365		mg/L		107	75 - 125
Dichlorodifluoromethane	0.0500	0.05929		mg/L		119	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-56373/3

Matrix: Water

Analysis Batch: 56373

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	0.04670		mg/L		93	72 - 125
1,2-Dichloroethane	0.0500	0.05412		mg/L		108	68 - 127
1,1-Dichloroethene	0.0500	0.05275		mg/L		106	59 - 172
1,2-Dichloropropane	0.0500	0.04914		mg/L		98	74 - 125
1,3-Dichloropropane	0.0500	0.04942		mg/L		99	75 - 125
2,2-Dichloropropane	0.0500	0.05759		mg/L		115	75 - 125
1,1-Dichloropropene	0.0500	0.05511		mg/L		110	75 - 125
Ethylbenzene	0.0500	0.05586		mg/L		112	75 - 125
Hexachlorobutadiene	0.0500	0.06032		mg/L		121	75 - 125
Isopropylbenzene	0.0500	0.05898		mg/L		118	75 - 125
Methylene Chloride	0.0500	0.04539		mg/L		91	75 - 125
m,p-Xylenes	0.0500	0.05778		mg/L		116	75 - 125
MTBE	0.0500	0.04551		mg/L		91	65 - 135
Naphthalene	0.0500	0.05441		mg/L		109	70 - 130
n-Butylbenzene	0.0500	0.05673		mg/L		113	75 - 125
N-Propylbenzene	0.0500	0.05519		mg/L		110	75 - 125
o-Xylene	0.0500	0.05691		mg/L		114	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05829		mg/L		117	75 - 125
sec-Butylbenzene	0.0500	0.05745		mg/L		115	75 - 125
Styrene	0.0500	0.05768		mg/L		115	75 - 125
tert-Butylbenzene	0.0500	0.05776		mg/L		116	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05546		mg/L		111	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04666		mg/L		93	74 - 125
Tetrachloroethene	0.0500	0.05843		mg/L		117	71 - 125
Toluene	0.0500	0.05354		mg/L		107	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05002		mg/L		100	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05299		mg/L		106	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05649		mg/L		113	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05549		mg/L		111	75 - 135
1,1,1-Trichloroethane	0.0500	0.05658		mg/L		113	75 - 125
1,1,2-Trichloroethane	0.0500	0.04905		mg/L		98	75 - 127
Trichloroethene	0.0500	0.05641		mg/L		113	62 - 137
Trichlorofluoromethane	0.0500	0.05215		mg/L		104	60 - 140
1,2,3-Trichloropropane	0.0500	0.04706		mg/L		94	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05726		mg/L		115	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05635		mg/L		113	60 - 140
Vinyl chloride	0.0500	0.04606		mg/L		92	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	97		80 - 117

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QC Sample Results

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-56373/4

Matrix: Water

Analysis Batch: 56373

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	0.05040		mg/L		101	66 - 142	4	25
Bromobenzene	0.0500	0.05365		mg/L		107	75 - 125	0	25
Bromochloromethane	0.0500	0.05153		mg/L		103	60 - 140	1	25
Bromodichloromethane	0.0500	0.05216		mg/L		104	75 - 125	4	25
Bromoform	0.0500	0.05466		mg/L		109	75 - 125	2	25
Bromomethane	0.0500	0.04322		mg/L		86	60 - 140	21	25
2-Butanone	0.250	0.2223		mg/L		89	60 - 140	1	25
Carbon tetrachloride	0.0500	0.05369		mg/L		107	62 - 125	7	25
Chlorobenzene	0.0500	0.05214		mg/L		104	60 - 133	4	25
Chloroethane	0.0500	0.04464		mg/L		89	60 - 140	2	25
Chloroform	0.0500	0.05147		mg/L		103	70 - 130	3	25
Chloromethane	0.0500	0.04167		mg/L		83	60 - 140	10	25
2-Chlorotoluene	0.0500	0.05294		mg/L		106	73 - 125	3	25
4-Chlorotoluene	0.0500	0.05405		mg/L		108	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.04795		mg/L		96	75 - 125	7	25
cis-1,3-Dichloropropene	0.0500	0.05255		mg/L		105	74 - 125	1	25
Dibromochloromethane	0.0500	0.05304		mg/L		106	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04796		mg/L		96	59 - 125	9	25
1,2-Dibromoethane	0.0500	0.05221		mg/L		104	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05318		mg/L		106	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.05358		mg/L		107	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.05337		mg/L		107	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.05686		mg/L		114	70 - 130	4	25
1,1-Dichloroethane	0.0500	0.04390		mg/L		88	72 - 125	6	25
1,2-Dichloroethane	0.0500	0.05319		mg/L		106	68 - 127	2	25
1,1-Dichloroethene	0.0500	0.04784		mg/L		96	59 - 172	10	25
1,2-Dichloropropane	0.0500	0.04860		mg/L		97	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04952		mg/L		99	75 - 125	0	25
2,2-Dichloropropane	0.0500	0.05397		mg/L		108	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.05079		mg/L		102	75 - 125	8	25
Ethylbenzene	0.0500	0.05299		mg/L		106	75 - 125	5	25
Hexachlorobutadiene	0.0500	0.05325		mg/L		107	75 - 125	12	25
Isopropylbenzene	0.0500	0.05550		mg/L		111	75 - 125	6	25
Methylene Chloride	0.0500	0.04270		mg/L		85	75 - 125	6	25
m,p-Xylenes	0.0500	0.05376		mg/L		108	75 - 125	7	25
MTBE	0.0500	0.04493		mg/L		90	65 - 135	1	25
Naphthalene	0.0500	0.04621		mg/L		92	70 - 130	16	25
n-Butylbenzene	0.0500	0.05455		mg/L		109	75 - 125	4	25
N-Propylbenzene	0.0500	0.05419		mg/L		108	75 - 125	2	25
o-Xylene	0.0500	0.05400		mg/L		108	75 - 125	5	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05663		mg/L		113	75 - 125	3	25
sec-Butylbenzene	0.0500	0.05470		mg/L		109	75 - 125	5	25
Styrene	0.0500	0.05490		mg/L		110	75 - 125	5	25
tert-Butylbenzene	0.0500	0.05653		mg/L		113	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.05306		mg/L		106	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.04806		mg/L		96	74 - 125	3	25
Tetrachloroethene	0.0500	0.05561		mg/L		111	71 - 125	5	25
Toluene	0.0500	0.05178		mg/L		104	59 - 139	3	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-56373/4

Matrix: Water

Analysis Batch: 56373

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	0.04585		mg/L		92	75 - 125	9	25
trans-1,3-Dichloropropene	0.0500	0.05135		mg/L		103	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.04715		mg/L		94	75 - 137	18	25
1,2,4-Trichlorobenzene	0.0500	0.05062		mg/L		101	75 - 135	9	25
1,1,1-Trichloroethane	0.0500	0.05369		mg/L		107	75 - 125	5	25
1,1,2-Trichloroethane	0.0500	0.04784		mg/L		96	75 - 127	2	25
Trichloroethene	0.0500	0.05430		mg/L		109	62 - 137	4	25
Trichlorofluoromethane	0.0500	0.05070		mg/L		101	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.05153		mg/L		103	75 - 125	9	25
1,2,4-Trimethylbenzene	0.0500	0.05530		mg/L		111	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05523		mg/L		110	60 - 140	2	25
Vinyl chloride	0.0500	0.04397		mg/L		88	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	99		80 - 117

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

Lab Sample ID: MB 860-56496/1-A

Matrix: Water

Analysis Batch: 56429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56496

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		06/10/22 15:56	06/10/22 17:59	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		06/10/22 15:56	06/10/22 17:59	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		06/10/22 15:56	06/10/22 17:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 135	06/10/22 15:56	06/10/22 17:59	1
o-Terphenyl	116		70 - 135	06/10/22 15:56	06/10/22 17:59	1

Lab Sample ID: LCS 860-56496/2-A

Matrix: Water

Analysis Batch: 56429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	100	109.1		mg/L		109	70 - 135
Diesel Range Organics (Over C10-C28)	99.7	98.43		mg/L		99	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	118		70 - 135
o-Terphenyl	102		70 - 135

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-56496/3-A

Matrix: Water

Analysis Batch: 56429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56496

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	100.8		mg/L		101	70 - 135	8	35
Diesel Range Organics (Over C10-C28)	99.7	98.75		mg/L		99	70 - 135	0	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	114		70 - 135						
o-Terphenyl	99		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-56391/3

Matrix: Water

Analysis Batch: 56391

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200 mg/L			06/10/22 09:28	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/10/22 09:28	1
Sulfate	<0.109	U	0.500	0.109 mg/L			06/10/22 09:28	1

Lab Sample ID: LCS 860-56391/6

Matrix: Water

Analysis Batch: 56391

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	9.872		mg/L		99	90 - 110
Fluoride	10.0	10.45		mg/L		105	90 - 110
Sulfate	10.0	9.908		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-56391/7

Matrix: Water

Analysis Batch: 56391

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	9.873		mg/L		99	90 - 110	0	20
Fluoride	10.0	10.49		mg/L		105	90 - 110	0	20
Sulfate	10.0	9.919		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-56391/5

Matrix: Water

Analysis Batch: 56391

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	0.5494		mg/L		110	50 - 150
Fluoride	0.500	0.4208	J	mg/L		84	50 - 150
Sulfate	0.500	0.5058		mg/L		101	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-15707-1 MS

Matrix: Water

Analysis Batch: 56391

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	99.9		10.0	106.3	4	mg/L		64	90 - 110
Fluoride	0.743		10.0	11.14		mg/L		104	90 - 110
Sulfate	46.6		10.0	56.42	4	mg/L		98	90 - 110

Lab Sample ID: 880-15707-1 MSD

Matrix: Water

Analysis Batch: 56391

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	99.9		10.0	106.4	4	mg/L		65	90 - 110	0	20
Fluoride	0.743		10.0	11.13		mg/L		104	90 - 110	0	20
Sulfate	46.6		10.0	56.43	4	mg/L		99	90 - 110	0	20

Lab Sample ID: MB 860-56392/3

Matrix: Water

Analysis Batch: 56392

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			06/10/22 09:28	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/10/22 09:28	1

Lab Sample ID: LCS 860-56392/6

Matrix: Water

Analysis Batch: 56392

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	10.09		mg/L		101	80 - 120
Nitrite as N	5.00	5.215		mg/L		104	80 - 120

Lab Sample ID: LCSD 860-56392/7

Matrix: Water

Analysis Batch: 56392

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	10.10		mg/L		101	80 - 120	0	20
Nitrite as N	5.00	5.245		mg/L		105	80 - 120	1	20

Lab Sample ID: LLCS 860-56392/4

Matrix: Water

Analysis Batch: 56392

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	0.1188		mg/L		119	50 - 150
Nitrite as N	0.100	0.09638	J	mg/L		96	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-15707-1 MS

Matrix: Water

Analysis Batch: 56392

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.0391	U H	10.0	10.14		mg/L		101	80 - 120
Nitrite as N	<0.0293	U H	2.50	2.463		mg/L		99	80 - 120

Lab Sample ID: 880-15707-1 MSD

Matrix: Water

Analysis Batch: 56392

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.0391	U H	10.0	10.13		mg/L		101	80 - 120	0	15
Nitrite as N	<0.0293	U H	2.50	2.453		mg/L		98	80 - 120	0	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-56655/9

Matrix: Water

Analysis Batch: 56655

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			06/11/22 12:17	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/11/22 12:17	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/11/22 12:17	1

Lab Sample ID: LCS 860-56655/10

Matrix: Water

Analysis Batch: 56655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	252.2		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-56655/11

Matrix: Water

Analysis Batch: 56655

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	252.3		mg/L		101	85 - 115	0	20

Lab Sample ID: 880-15707-1 DU

Matrix: Water

Analysis Batch: 56655

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	246		247.9		mg/L		0.7	20
Bicarbonate Alkalinity as CaCO3	246		247.9		mg/L		0.7	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-15707-1 DU

Matrix: Water

Analysis Batch: 56542

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.1	HF	7.1		SU		0.1	20
Temperature	20.3	HF	19.9		Degrees C		2	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-56769/1

Matrix: Water

Analysis Batch: 56769

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			06/13/22 21:59	1

Lab Sample ID: LCS 860-56769/2

Matrix: Water

Analysis Batch: 56769

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	46.40		mg/L		93	80 - 120

Lab Sample ID: LCSD 860-56769/3

Matrix: Water

Analysis Batch: 56769

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Sulfide	50.0	46.20		mg/L		92	80 - 120	0	20

Lab Sample ID: 880-15707-1 MS

Matrix: Water

Analysis Batch: 56769

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	0.600	J	50.0	47.00		mg/L		93	80 - 120

Lab Sample ID: 880-15707-1 MSD

Matrix: Water

Analysis Batch: 56769

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	Limit
Sulfide	0.600	J	50.0	47.40		mg/L		94	80 - 120	2	20

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-15707-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 56373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15707-1	MW-1	Total/NA	Water	8260C	
880-15707-2	MW-2	Total/NA	Water	8260C	
MB 860-56373/10	Method Blank	Total/NA	Water	8260C	
LCS 860-56373/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-56373/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 55049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15707-1	MW-1	Total/NA	Water	8015 NM	
880-15707-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 56429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15707-1	MW-1	Total/NA	Water	8015B NM	56496
880-15707-2	MW-2	Total/NA	Water	8015B NM	56496
MB 860-56496/1-A	Method Blank	Total/NA	Water	8015B NM	56496
LCS 860-56496/2-A	Lab Control Sample	Total/NA	Water	8015B NM	56496
LCSD 860-56496/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	56496

Prep Batch: 56496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15707-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-15707-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-56496/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-56496/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-56496/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 56391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15707-1	MW-1	Total/NA	Water	300.0	
880-15707-2	MW-2	Total/NA	Water	300.0	
MB 860-56391/3	Method Blank	Total/NA	Water	300.0	
LCS 860-56391/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-56391/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-56391/5	Lab Control Sample	Total/NA	Water	300.0	
880-15707-1 MS	MW-1	Total/NA	Water	300.0	
880-15707-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 56392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15707-1	MW-1	Total/NA	Water	300.0	
880-15707-1	MW-1	Total/NA	Water	300.0	
880-15707-2	MW-2	Total/NA	Water	300.0	
MB 860-56392/3	Method Blank	Total/NA	Water	300.0	
LCS 860-56392/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-56392/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-56392/4	Lab Control Sample	Total/NA	Water	300.0	
880-15707-1 MS	MW-1	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-15707-1

HPLC/IC (Continued)

Analysis Batch: 56392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15707-1 MS	MW-1	Total/NA	Water	300.0	
880-15707-1 MSD	MW-1	Total/NA	Water	300.0	
880-15707-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 56542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15707-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-15707-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-15707-1 DU	MW-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 56655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15707-1	MW-1	Total/NA	Water	SM 2320B	
880-15707-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-56655/9	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-56655/10	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-56655/11	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-15707-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 56769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15707-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-15707-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-56769/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-56769/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-56769/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-15707-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-15707-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 58328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15707-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-15707-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-15707-1

Client Sample ID: MW-1

Lab Sample ID: 880-15707-1

Date Collected: 06/09/22 11:30

Matrix: Water

Date Received: 06/09/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	56373	06/10/22 14:08	NA	XEN STF
Total/NA	Analysis	8015 NM		1	55049	06/10/22 18:17	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			56496	06/10/22 15:56	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	56429	06/10/22 19:20	W1N	XEN STF
Total/NA	Analysis	300.0		1	56392	06/10/22 18:41	ANP	XEN STF
Total/NA	Analysis	300.0		1	56391	06/12/22 06:00	ANP	XEN STF
Total/NA	Analysis	300.0		1	56392	06/12/22 06:00	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	56655	06/11/22 12:44	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	58328	06/23/22 20:38	ANP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	56542	06/10/22 17:35	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	56769	06/13/22 21:59	YGG	XEN STF

Client Sample ID: MW-2

Lab Sample ID: 880-15707-2

Date Collected: 06/09/22 12:35

Matrix: Water

Date Received: 06/09/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	56373	06/10/22 14:29	NA	XEN STF
Total/NA	Analysis	8015 NM		1	55049	06/10/22 18:17	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			56496	06/10/22 15:56	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	56429	06/10/22 19:40	W1N	XEN STF
Total/NA	Analysis	300.0		1	56391	06/10/22 15:54	ANP	XEN STF
Total/NA	Analysis	300.0		1	56392	06/10/22 15:54	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	56655	06/11/22 13:21	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	58328	06/23/22 20:38	ANP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	56542	06/10/22 17:38	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	56769	06/13/22 21:59	YGG	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-15707-1

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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	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: 880-15707-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
SM 4500 S2 F	Sulfide, Total	SM	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Aq Prep	Microextraction	SW846	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

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

Job ID: 880-15707-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-15707-1	MW-1	Water	06/09/22 11:30	06/09/22 15:45
880-15707-2	MW-2	Water	06/09/22 12:35	06/09/22 15:45

- 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) 335-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 392-7550
Hobbs, NM (575) 392-7550

Hobbs NM (505-392-1550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)

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Chain of Custody

Work Order No: 15707

Project Manager:	Beaux Jennings	Bill to (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	432-230-3344	Email:	bjenings@ensolum.com

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

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-15707-1

Login Number: 15707

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: 880-15707-1

Login Number: 15707

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 06/10/22 12:33 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 America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16028-1

Laboratory Sample Delivery Group: Hobbs NM

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

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

6/28/2022 11:56:12 AM

Jessica Kramer, Project Manager

(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

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

Laboratory Job ID: 880-16028-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-16028-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	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)

Definitions/Glossary

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

Job ID: 880-16028-1
SDG: Hobbs NM

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-16028-1
SDG: Hobbs NM

Job ID: 880-16028-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-16028-1

Receipt

The sample was received on 6/17/2022 3:20 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

GC/MS VOA

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 860-57526 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 200.7: The method blank for preparation batch 860-57642 and analytical batch 860-58647 contained calcium 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 860-57642 and analytical batch 860-58647 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.

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: 880-16028-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-16028-1

Date Collected: 06/17/22 10:45

Matrix: Water

Date Received: 06/17/22 15:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00368		0.00100	0.000214	mg/L		06/18/22 21:35	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		06/18/22 21:35	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		06/18/22 21:35	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		06/18/22 21:35	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		06/18/22 21:35	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		06/18/22 21:35	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		06/18/22 21:35	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		06/18/22 21:35	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		06/18/22 21:35	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		06/18/22 21:35	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		06/18/22 21:35	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		06/18/22 21:35	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		06/18/22 21:35	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		06/18/22 21:35	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		06/18/22 21:35	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		06/18/22 21:35	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		06/18/22 21:35	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		06/18/22 21:35	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		06/18/22 21:35	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		06/18/22 21:35	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		06/18/22 21:35	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		06/18/22 21:35	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		06/18/22 21:35	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		06/18/22 21:35	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		06/18/22 21:35	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		06/18/22 21:35	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		06/18/22 21:35	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		06/18/22 21:35	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		06/18/22 21:35	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		06/18/22 21:35	1
Ethylbenzene	0.0141		0.00100	0.000515	mg/L		06/18/22 21:35	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		06/18/22 21:35	1
Isopropylbenzene	0.00678		0.00100	0.000161	mg/L		06/18/22 21:35	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		06/18/22 21:35	1
m,p-Xylenes	0.0544		0.0100	0.000330	mg/L		06/18/22 21:35	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		06/18/22 21:35	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		06/18/22 21:35	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		06/18/22 21:35	1
N-Propylbenzene	0.00340		0.00100	0.000179	mg/L		06/18/22 21:35	1
o-Xylene	0.00881		0.00100	0.000192	mg/L		06/18/22 21:35	1
p-Cymene (p-Isopropyltoluene)	0.000744	J	0.00100	0.000233	mg/L		06/18/22 21:35	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L		06/18/22 21:35	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		06/18/22 21:35	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		06/18/22 21:35	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		06/18/22 21:35	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		06/18/22 21:35	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		06/18/22 21:35	1
Toluene	0.0282		0.00100	0.000500	mg/L		06/18/22 21:35	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		06/18/22 21:35	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-16028-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-16028-1

Date Collected: 06/17/22 10:45

Matrix: Water

Date Received: 06/17/22 15:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/18/22 21:35	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/18/22 21:35	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/18/22 21:35	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/18/22 21:35	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/18/22 21:35	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/18/22 21:35	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/18/22 21:35	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/18/22 21:35	1
1,2,4-Trimethylbenzene	0.0152		0.00100	0.000252 mg/L			06/18/22 21:35	1
1,3,5-Trimethylbenzene	0.00482		0.00100	0.000279 mg/L			06/18/22 21:35	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/18/22 21:35	1
Xylenes, Total	0.0632		0.0100	0.000330 mg/L			06/18/22 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124		06/18/22 21:35	1
Dibromofluoromethane (Surr)	102		75 - 131		06/18/22 21:35	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		06/18/22 21:35	1
Toluene-d8 (Surr)	98		80 - 117		06/18/22 21:35	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.282	J	0.500	0.0711 mg/L			06/18/22 17:51	1
Nitrate as N	0.151		0.100	0.0391 mg/L			06/18/22 17:51	1
Chloride	204		0.500	0.200 mg/L			06/18/22 17:51	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/18/22 17:51	1
Fluoride	0.643		0.500	0.100 mg/L			06/18/22 17:51	1
Sulfate	43.9		0.500	0.109 mg/L			06/18/22 17:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190		10.0	1.47 mg/L		06/20/22 12:00	06/26/22 21:37	50
Magnesium	35.3		0.200	0.0500 mg/L		06/20/22 12:00	06/26/22 19:59	1
Potassium	2.54		0.500	0.107 mg/L		06/20/22 12:00	06/26/22 19:59	1
Sodium	59.9		0.500	0.0667 mg/L		06/20/22 12:00	06/26/22 19:59	1
SiO2	59.9		1.07	0.0781 mg/L		06/20/22 12:00	06/26/22 19:59	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-16.7			%			06/24/22 09:23	1
Alkalinity	619		4.00	4.00 mg/L			06/21/22 13:31	1
Bicarbonate Alkalinity as CaCO3	619		4.00	4.00 mg/L			06/21/22 13:31	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/21/22 13:31	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			06/21/22 13:31	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			06/21/22 13:31	1
Total Dissolved Solids	1160		10.0	10.0 mg/L			06/20/22 12:58	1
pH	6.4	HF		SU			06/20/22 13:18	1
Temperature	17.8	HF		Degrees C			06/20/22 13:18	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-16028-1
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)	(80-117)
860-28167-L-1 MS	Matrix Spike	100	100	102	100
880-16028-1	Levey Well	103	102	107	98
LCS 860-57528/3	Lab Control Sample	101	102	101	99
LCSD 860-57528/4	Lab Control Sample Dup	100	99	101	99
MB 860-57528/9	Method Blank	102	99	104	101
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-16028-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-57528/9

Matrix: Water

Analysis Batch: 57528

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/18/22 14:45	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/18/22 14:45	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/18/22 14:45	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/18/22 14:45	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/18/22 14:45	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/18/22 14:45	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/18/22 14:45	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/18/22 14:45	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/18/22 14:45	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/18/22 14:45	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/18/22 14:45	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/18/22 14:45	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/18/22 14:45	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/18/22 14:45	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/18/22 14:45	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/18/22 14:45	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/18/22 14:45	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/18/22 14:45	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/18/22 14:45	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/18/22 14:45	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/18/22 14:45	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/18/22 14:45	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/18/22 14:45	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/18/22 14:45	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/18/22 14:45	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/18/22 14:45	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/18/22 14:45	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/18/22 14:45	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/18/22 14:45	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/18/22 14:45	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/18/22 14:45	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/18/22 14:45	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/18/22 14:45	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/18/22 14:45	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/18/22 14:45	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/18/22 14:45	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/18/22 14:45	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/18/22 14:45	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/18/22 14:45	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/18/22 14:45	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/18/22 14:45	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/18/22 14:45	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/18/22 14:45	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/18/22 14:45	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/18/22 14:45	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/18/22 14:45	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/18/22 14:45	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/18/22 14:45	1

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QC Sample Results

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

Job ID: 880-16028-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-57528/9

Matrix: Water

Analysis Batch: 57528

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	<0.000256	U	0.00100	0.000256 mg/L			06/18/22 14:45	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/18/22 14:45	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/18/22 14:45	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/18/22 14:45	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/18/22 14:45	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/18/22 14:45	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/18/22 14:45	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/18/22 14:45	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/18/22 14:45	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			06/18/22 14:45	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			06/18/22 14:45	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/18/22 14:45	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			06/18/22 14:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		06/18/22 14:45	1
Dibromofluoromethane (Surr)	99		75 - 131		06/18/22 14:45	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		06/18/22 14:45	1
Toluene-d8 (Surr)	101		80 - 117		06/18/22 14:45	1

Lab Sample ID: LCS 860-57528/3

Matrix: Water

Analysis Batch: 57528

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	0.04939		mg/L		99	66 - 142
Bromobenzene	0.0500	0.05077		mg/L		102	75 - 125
Bromochloromethane	0.0500	0.04955		mg/L		99	60 - 140
Bromodichloromethane	0.0500	0.04962		mg/L		99	75 - 125
Bromoform	0.0500	0.04739		mg/L		95	75 - 125
Bromomethane	0.0500	0.04543		mg/L		91	60 - 140
2-Butanone	0.250	0.2306		mg/L		92	60 - 140
Carbon tetrachloride	0.0500	0.05457		mg/L		109	62 - 125
Chlorobenzene	0.0500	0.04917		mg/L		98	60 - 133
Chloroethane	0.0500	0.05554		mg/L		111	60 - 140
Chloroform	0.0500	0.05002		mg/L		100	70 - 130
Chloromethane	0.0500	0.05067		mg/L		101	60 - 140
2-Chlorotoluene	0.0500	0.05050		mg/L		101	73 - 125
4-Chlorotoluene	0.0500	0.05026		mg/L		101	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04930		mg/L		99	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05078		mg/L		102	74 - 125
Dibromochloromethane	0.0500	0.04831		mg/L		97	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04759		mg/L		95	59 - 125
1,2-Dibromoethane	0.0500	0.04741		mg/L		95	73 - 125
1,2-Dichlorobenzene	0.0500	0.05018		mg/L		100	75 - 125
1,3-Dichlorobenzene	0.0500	0.05061		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05079		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.06232		mg/L		125	70 - 130

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QC Sample Results

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

Job ID: 880-16028-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-57528/3

Matrix: Water

Analysis Batch: 57528

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	0.05005		mg/L		100	72 - 125
1,2-Dichloroethane	0.0500	0.04990		mg/L		100	68 - 127
1,1-Dichloroethene	0.0500	0.05177		mg/L		104	59 - 172
1,2-Dichloropropane	0.0500	0.04869		mg/L		97	74 - 125
1,3-Dichloropropane	0.0500	0.04856		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.05359		mg/L		107	75 - 125
1,1-Dichloropropene	0.0500	0.05151		mg/L		103	75 - 125
Ethylbenzene	0.0500	0.04944		mg/L		99	75 - 125
Hexachlorobutadiene	0.0500	0.05375		mg/L		107	75 - 125
Isopropylbenzene	0.0500	0.04987		mg/L		100	75 - 125
Methylene Chloride	0.0500	0.04667		mg/L		93	75 - 125
m,p-Xylenes	0.0500	0.04956		mg/L		99	75 - 125
MTBE	0.0500	0.04635		mg/L		93	65 - 135
Naphthalene	0.0500	0.04609		mg/L		92	70 - 130
n-Butylbenzene	0.0500	0.05337		mg/L		107	75 - 125
N-Propylbenzene	0.0500	0.05126		mg/L		103	75 - 125
o-Xylene	0.0500	0.04972		mg/L		99	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05087		mg/L		102	75 - 125
sec-Butylbenzene	0.0500	0.05142		mg/L		103	75 - 125
Styrene	0.0500	0.04971		mg/L		99	75 - 125
tert-Butylbenzene	0.0500	0.05111		mg/L		102	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04766		mg/L		95	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04581		mg/L		92	74 - 125
Tetrachloroethene	0.0500	0.05120		mg/L		102	71 - 125
Toluene	0.0500	0.04861		mg/L		97	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04852		mg/L		97	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04905		mg/L		98	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04666		mg/L		93	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04920		mg/L		98	75 - 135
1,1,1-Trichloroethane	0.0500	0.05221		mg/L		104	75 - 125
1,1,2-Trichloroethane	0.0500	0.04678		mg/L		94	75 - 127
Trichloroethene	0.0500	0.05053		mg/L		101	62 - 137
Trichlorofluoromethane	0.0500	0.05893		mg/L		118	60 - 140
1,2,3-Trichloropropane	0.0500	0.04421		mg/L		88	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05047		mg/L		101	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05074		mg/L		101	60 - 140
Vinyl chloride	0.0500	0.05677		mg/L		114	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		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: 880-16028-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-57528/4

Matrix: Water

Analysis Batch: 57528

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	0.04710		mg/L		94	66 - 142	5	25
Bromobenzene	0.0500	0.04817		mg/L		96	75 - 125	5	25
Bromochloromethane	0.0500	0.04744		mg/L		95	60 - 140	4	25
Bromodichloromethane	0.0500	0.04799		mg/L		96	75 - 125	3	25
Bromoform	0.0500	0.04649		mg/L		93	75 - 125	2	25
Bromomethane	0.0500	0.04201		mg/L		84	60 - 140	8	25
2-Butanone	0.250	0.2303		mg/L		92	60 - 140	0	25
Carbon tetrachloride	0.0500	0.05084		mg/L		102	62 - 125	7	25
Chlorobenzene	0.0500	0.04744		mg/L		95	60 - 133	4	25
Chloroethane	0.0500	0.05128		mg/L		103	60 - 140	8	25
Chloroform	0.0500	0.04775		mg/L		95	70 - 130	5	25
Chloromethane	0.0500	0.04758		mg/L		95	60 - 140	6	25
2-Chlorotoluene	0.0500	0.04771		mg/L		95	73 - 125	6	25
4-Chlorotoluene	0.0500	0.04784		mg/L		96	74 - 125	5	25
cis-1,2-Dichloroethene	0.0500	0.04729		mg/L		95	75 - 125	4	25
cis-1,3-Dichloropropene	0.0500	0.04896		mg/L		98	74 - 125	4	25
Dibromochloromethane	0.0500	0.04738		mg/L		95	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04800		mg/L		96	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.04722		mg/L		94	73 - 125	0	25
1,2-Dichlorobenzene	0.0500	0.04749		mg/L		95	75 - 125	6	25
1,3-Dichlorobenzene	0.0500	0.04772		mg/L		95	75 - 125	6	25
1,4-Dichlorobenzene	0.0500	0.04836		mg/L		97	75 - 125	5	25
Dichlorodifluoromethane	0.0500	0.05740		mg/L		115	70 - 130	8	25
1,1-Dichloroethane	0.0500	0.04732		mg/L		95	72 - 125	6	25
1,2-Dichloroethane	0.0500	0.04847		mg/L		97	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.04854		mg/L		97	59 - 172	6	25
1,2-Dichloropropane	0.0500	0.04726		mg/L		95	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04761		mg/L		95	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05060		mg/L		101	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.04849		mg/L		97	75 - 125	6	25
Ethylbenzene	0.0500	0.04770		mg/L		95	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05049		mg/L		101	75 - 125	6	25
Isopropylbenzene	0.0500	0.04776		mg/L		96	75 - 125	4	25
Methylene Chloride	0.0500	0.04495		mg/L		90	75 - 125	4	25
m,p-Xylenes	0.0500	0.04780		mg/L		96	75 - 125	4	25
MTBE	0.0500	0.04563		mg/L		91	65 - 135	2	25
Naphthalene	0.0500	0.04834		mg/L		97	70 - 130	5	25
n-Butylbenzene	0.0500	0.05032		mg/L		101	75 - 125	6	25
N-Propylbenzene	0.0500	0.04823		mg/L		96	75 - 125	6	25
o-Xylene	0.0500	0.04786		mg/L		96	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04791		mg/L		96	75 - 125	6	25
sec-Butylbenzene	0.0500	0.04815		mg/L		96	75 - 125	7	25
Styrene	0.0500	0.04804		mg/L		96	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04831		mg/L		97	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.04615		mg/L		92	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.04527		mg/L		91	74 - 125	1	25
Tetrachloroethene	0.0500	0.04797		mg/L		96	71 - 125	7	25
Toluene	0.0500	0.04699		mg/L		94	59 - 139	3	25

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QC Sample Results

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

Job ID: 880-16028-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-57528/4

Matrix: Water

Analysis Batch: 57528

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	0.04650		mg/L		93	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.04774		mg/L		95	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.04803		mg/L		96	75 - 137	3	25
1,2,4-Trichlorobenzene	0.0500	0.04941		mg/L		99	75 - 135	0	25
1,1,1-Trichloroethane	0.0500	0.04914		mg/L		98	75 - 125	6	25
1,1,2-Trichloroethane	0.0500	0.04606		mg/L		92	75 - 127	2	25
Trichloroethene	0.0500	0.04830		mg/L		97	62 - 137	5	25
Trichlorofluoromethane	0.0500	0.05574		mg/L		111	60 - 140	6	25
1,2,3-Trichloropropane	0.0500	0.04412		mg/L		88	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.04738		mg/L		95	75 - 125	6	25
1,3,5-Trimethylbenzene	0.0500	0.04722		mg/L		94	60 - 140	7	25
Vinyl chloride	0.0500	0.05292		mg/L		106	60 - 140	7	25

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-57526/3

Matrix: Water

Analysis Batch: 57526

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			06/18/22 12:59	1
Chloride	<0.200	U	0.500	0.200 mg/L			06/18/22 12:59	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/18/22 12:59	1
Sulfate	<0.109	U	0.500	0.109 mg/L			06/18/22 12:59	1

Lab Sample ID: LCS 860-57526/6

Matrix: Water

Analysis Batch: 57526

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	9.160		mg/L		92	90 - 110
Chloride	10.0	9.493		mg/L		95	90 - 110
Fluoride	10.0	9.865		mg/L		99	90 - 110
Sulfate	10.0	9.591		mg/L		96	90 - 110

Lab Sample ID: LCSD 860-57526/7

Matrix: Water

Analysis Batch: 57526

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	9.254		mg/L		93	90 - 110	1	20
Chloride	10.0	9.492		mg/L		95	90 - 110	0	20
Fluoride	10.0	9.927		mg/L		99	90 - 110	1	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-16028-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-57526/7

Matrix: Water

Analysis Batch: 57526

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	9.657		mg/L		97	90 - 110	1	20

Lab Sample ID: LLCS 860-57526/5

Matrix: Water

Analysis Batch: 57526

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	0.4142	J	mg/L		83	50 - 150		
Chloride	0.500	0.5431		mg/L		109	50 - 150		
Fluoride	0.500	0.4276	J	mg/L		86	50 - 150		
Sulfate	0.500	0.4716	J	mg/L		94	50 - 150		

Lab Sample ID: MB 860-57527/3

Matrix: Water

Analysis Batch: 57527

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			06/18/22 12:59	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/18/22 12:59	1

Lab Sample ID: LCS 860-57527/6

Matrix: Water

Analysis Batch: 57527

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	9.461		mg/L		95	80 - 120		
Nitrite as N	5.00	4.701		mg/L		94	80 - 120		

Lab Sample ID: LCSD 860-57527/7

Matrix: Water

Analysis Batch: 57527

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	9.533		mg/L		95	80 - 120	1	20
Nitrite as N	5.00	4.784		mg/L		96	80 - 120	2	20

Lab Sample ID: LLCS 860-57527/4

Matrix: Water

Analysis Batch: 57527

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	0.09716	J	mg/L		97	50 - 150		
Nitrite as N	0.100	0.1009		mg/L		101	50 - 150		

Eurofins Midland

QC Sample Results

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

Job ID: 880-16028-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-57642/1-A

Matrix: Water

Analysis Batch: 57799

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 57642

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		06/20/22 12:00	06/20/22 17:53	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		06/20/22 12:00	06/20/22 17:53	1
Potassium	<0.107	U	0.500	0.107 mg/L		06/20/22 12:00	06/20/22 17:53	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		06/20/22 12:00	06/20/22 17:53	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		06/20/22 12:00	06/20/22 17:53	1

Lab Sample ID: MB 860-57642/1-A

Matrix: Water

Analysis Batch: 58647

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 57642

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		06/20/22 12:00	06/26/22 19:45	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		06/20/22 12:00	06/26/22 19:45	1
Potassium	<0.107	U	0.500	0.107 mg/L		06/20/22 12:00	06/26/22 19:45	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		06/20/22 12:00	06/26/22 19:45	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		06/20/22 12:00	06/26/22 19:45	1

Lab Sample ID: LCS 860-57642/2-A

Matrix: Water

Analysis Batch: 57799

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
SiO2	21.4	24.39		mg/L		114	85 - 115

Lab Sample ID: LCS 860-57642/2-A

Matrix: Water

Analysis Batch: 58647

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.03		mg/L		96	85 - 115
Magnesium	25.0	25.91		mg/L		104	85 - 115
Potassium	10.0	10.35		mg/L		103	85 - 115
Sodium	25.0	25.77		mg/L		103	85 - 115
SiO2	21.4	22.95		mg/L		107	85 - 115

Lab Sample ID: LCSD 860-57642/3-A

Matrix: Water

Analysis Batch: 58647

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 57642

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Calcium	25.0	24.13		mg/L		97	85 - 115	0	20
Magnesium	25.0	26.01		mg/L		104	85 - 115	0	20
Potassium	10.0	10.41		mg/L		104	85 - 115	1	20
Sodium	25.0	25.92		mg/L		104	85 - 115	1	20
SiO2	21.4	22.88		mg/L		107	85 - 115	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-16028-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-57642/4-A

Matrix: Water

Analysis Batch: 57799

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57642

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1943	J	mg/L		97	50 - 150
Magnesium	0.200	0.1866	J	mg/L		93	50 - 150
Potassium	0.500	0.5337		mg/L		107	50 - 150
Sodium	0.500	0.5482		mg/L		110	50 - 150
SiO2	1.07	1.387		mg/L		130	50 - 150

Lab Sample ID: LLCS 860-57642/4-A

Matrix: Water

Analysis Batch: 58647

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57642

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2761		mg/L		138	50 - 150
Magnesium	0.200	0.2430		mg/L		121	50 - 150
Potassium	0.500	0.6193		mg/L		124	50 - 150
Sodium	0.500	0.6630		mg/L		133	50 - 150
SiO2	1.07	1.566		mg/L		146	50 - 150

Lab Sample ID: 880-16028-1 MS

Matrix: Water

Analysis Batch: 57799

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 57642

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	40.0	*+	25.0	68.96		mg/L		116	70 - 130
Potassium	2.80	*+	10.0	14.94		mg/L		121	70 - 130
Sodium	66.6	*+	25.0	94.49		mg/L		112	70 - 130
SiO2	65.6	*+	21.4	91.46		mg/L		121	70 - 130

Lab Sample ID: 880-16028-1 MS

Matrix: Water

Analysis Batch: 58647

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 57642

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	152	E	25.0	177.9	E 4	mg/L		105	70 - 130
Magnesium	35.3		25.0	62.14		mg/L		107	70 - 130
Potassium	2.54		10.0	13.53		mg/L		110	70 - 130
Sodium	59.9		25.0	87.09		mg/L		109	70 - 130
SiO2	59.9		21.4	85.08		mg/L		117	70 - 130

Lab Sample ID: 880-16028-1 MSD

Matrix: Water

Analysis Batch: 57799

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 57642

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
										RPD	Limit
Magnesium	40.0	*+	25.0	69.23		mg/L		117	70 - 130	0	20
Potassium	2.80	*+	10.0	15.01		mg/L		122	70 - 130	1	20
Sodium	66.6	*+	25.0	94.40		mg/L		111	70 - 130	0	20
SiO2	65.6	*+	21.4	91.53		mg/L		121	70 - 130	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-16028-1
SDG: Hobbs NM

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

Lab Sample ID: 880-16028-1 MSD

Matrix: Water

Analysis Batch: 58647

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 57642

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	152	E	25.0	177.4	E 4	mg/L		103	70 - 130	0	20
Magnesium	35.3		25.0	62.09		mg/L		107	70 - 130	0	20
Potassium	2.54		10.0	13.60		mg/L		111	70 - 130	0	20
Sodium	59.9		25.0	86.93		mg/L		108	70 - 130	0	20
SiO2	59.9		21.4	85.34		mg/L		119	70 - 130	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-57921/7

Matrix: Water

Analysis Batch: 57921

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			06/21/22 12:20	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/21/22 12:20	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/21/22 12:20	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			06/21/22 12:20	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			06/21/22 12:20	1

Lab Sample ID: LCS 860-57921/8

Matrix: Water

Analysis Batch: 57921

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	267.3		mg/L		107	85 - 115

Lab Sample ID: LCSD 860-57921/9

Matrix: Water

Analysis Batch: 57921

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	269.7		mg/L		108	85 - 115	1	20

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

Lab Sample ID: MB 860-57670/1

Matrix: Water

Analysis Batch: 57670

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			06/20/22 12:58	1

Lab Sample ID: LCS 860-57670/2

Matrix: Water

Analysis Batch: 57670

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	1035		mg/L		104	80 - 120

Eurofins Midland

QC Sample Results

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

Job ID: 880-16028-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-57670/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 57670											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1019		mg/L		102	80 - 120	2	10

Lab Sample ID: LLCS 860-57670/4				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 57670											
Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	6.000		mg/L		120	50 - 150		

Lab Sample ID: 880-16028-1 DU				Client Sample ID: Levey Well							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 57670											
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1160			1172		mg/L				0.9	10

QC Association Summary

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

Job ID: 880-16028-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 57528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16028-1	Levey Well	Total/NA	Water	8260C	
MB 860-57528/9	Method Blank	Total/NA	Water	8260C	
LCS 860-57528/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-57528/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 57526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16028-1	Levey Well	Total/NA	Water	300.0	
MB 860-57526/3	Method Blank	Total/NA	Water	300.0	
LCS 860-57526/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-57526/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-57526/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 57527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16028-1	Levey Well	Total/NA	Water	300.0	
MB 860-57527/3	Method Blank	Total/NA	Water	300.0	
LCS 860-57527/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-57527/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-57527/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 57642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16028-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-57642/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-57642/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-57642/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-57642/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-16028-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-16028-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 57799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-57642/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	57642
LCS 860-57642/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	57642
LLCS 860-57642/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	57642
880-16028-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57642
880-16028-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57642

Analysis Batch: 58647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16028-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57642
880-16028-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57642
MB 860-57642/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	57642
LCS 860-57642/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	57642
LCSD 860-57642/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	57642
LLCS 860-57642/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	57642
880-16028-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57642

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QC Association Summary

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

Job ID: 880-16028-1
SDG: Hobbs NM

Metals (Continued)

Analysis Batch: 58647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16028-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	57642

General Chemistry

Analysis Batch: 57670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16028-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-57670/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-57670/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-57670/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-57670/4	Lab Control Sample	Total/NA	Water	SM 2540C	
880-16028-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 57680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16028-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 57921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16028-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-57921/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-57921/8	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-57921/9	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 860-57921/10	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 58354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16028-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-16028-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 06/17/22 10:45
Date Received: 06/17/22 15:20

Lab Sample ID: 880-16028-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	57528	06/18/22 21:35	A1S	XEN STF
Total/NA	Analysis	300.0		1	57526	06/18/22 17:51	ANP	XEN STF
Total/NA	Analysis	300.0		1	57527	06/18/22 17:51	ANP	XEN STF
Total Recoverable	Prep	200.7			57642	06/20/22 12:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	58647	06/26/22 19:59	AV	XEN STF
Total Recoverable	Prep	200.7			57642	06/20/22 12:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	58647	06/26/22 21:37	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	58354	06/24/22 09:23	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	57921	06/21/22 13:31	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	57670	06/20/22 12:58	ADL	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	57680	06/20/22 13:18	TL	XEN STF

Laboratory References:
XEN STF = 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: 880-16028-1
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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
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: 880-16028-1
SDG: Hobbs NM

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

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

XEN STF = 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: 880-16028-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16028-1	Levey Well	Water	06/17/22 10:45	06/17/22 15:20

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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: 16028

www.xenco.com Page 1 of 1

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #240	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	432-230-3344	Email:	bjenings@ensolum.com

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

Project Name:	Levey Well	Hobbs NM	Turn Around	ANALYSIS REQUEST										Work Order Notes	
Project Number:	03B1417001		☐ Routine ☐ Rush 24 Hr												
P.O. Number:	03B1417001		Due Date												
Sampler's Name:	Shane Diller														
SAMPLE RECEIPT				Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒								
Temperature (°C):	34.3.2		Thermometer ID												
Received Intact:	Yes ☒ No ☐		Correction Factor:												
Cooler Custody Seals:	Yes ☐ No ☒ N/A		Total Containers:												
Sample Custody Seals:	Yes ☐ No ☒ N/A														
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers										TAT starts the day received by the lab if received by 4 30pm Sample Comments 24 Hr
Levey Well	GW	6-17-22	1045	7	VOCs										
					X										
					Anions: F, Cl, SO4, B										
					X										
					Cations: Ca, K, Mg, Na, Si										
					X										
					pH										
					X										
					Alkalinity										
					X										
					TDS										
					X										
880-16028 Chain of Custody															

Total 200.7 / 6010 200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn												
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U												
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									
1		6/17/22	2											
3		6:21	4											
5			6											

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

Temp. 2.0 IR ID-HOU-323
C/F -0.0
Corrected Temp: 2.0

Chain of Custody Record



880-16028 Chain of Custody

Ins
Environment Testing
America

Client Information (Sub Contract Lab)		Lab POC: Kramer, Jessica	
Client Contact: Shipping/Receiving		E-Mail: Jessica.Kramer@eurofins.com	
Company: Eurofins Environment Testing South Cent		Accreditations Required (See note): NELAP Texas	
Address: 4145 Greenbrier Dr		State of Origin: New Mexico	
City: Stafford		Page: Page 1 of 1	
State, Zip: TX, 77477		Job #: 880-16028-1	
Phone: 281-240-4200(Tel)		Preservation Codes:	
Email:		A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Ammonia H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA M. Hexane N. None O. AsHClO2 P. Na2OAS Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecylhydrate U. Acetone V. MCAA W. pH 4-5 Y. Trizma Z. other (Specify)	
Project Name: Levey Well Hobbs, NM 03B1417001		Project #: 88000024	
Site: Levey Well Hobbs, NM 03B1417001		SSOV#: 88000024	
Sample Identification Client ID (Lab ID)		Sample Date	
Levey Well (880-16028-1)		6/17/22 10:45 Mountain	
Sample Type		Matrix	
(C=comp, G=grab)		(Weigher, Syringe, Chemical, Gravimetric, A=lab)	
Water		Water	
Analysis Requested		Special Instructions/Note:	
8260C/8300C (MOD) Full List VOCs			
200.7/200.7_P TR (MOD) Custom List			
300_ORGFMS/28D/Br, Cl, F, SO4			
300_ORGFMS/ NO2, NO3			
SM4500_H+ pH			
2540C_Calc/d/ TDS			
2320B/ Alkalinity			
Cation_Anion/ (MOD) Copy Analytes			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV Other (Specify) Primary Deliverable Rank: 2			
Empty Kit Relinquished by		Method of Shipment	
Relinquished by: [Signature]		Date/Time: 6/18/22 9:42	
Relinquished by: [Signature]		Date/Time: 6/18/22 9:42	
Relinquished by: [Signature]		Date/Time: 6/18/22 9:42	
Custody Seals Intact: A Yes A No		Custody Seal No.	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-16028-1

SDG Number: Hobbs NM

Login Number: 16028

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: 880-16028-1

SDG Number: Hobbs NM

Login Number: 16028

List Number: 2

Creator: Torres, Sandra

List Source: Eurofins Houston

List Creation: 06/18/22 10:29 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16027-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

6/24/2022 8:31:10 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-16027-1

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Definitions/Glossary

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

Job ID: 880-16027-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	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: 880-16027-1

Job ID: 880-16027-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-16027-1

Receipt

The samples were received on 6/17/2022 3:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

GC/MS VOA

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-2 (880-16027-2). Note: pH 5.

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 860-57526 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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

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Client Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16027-1

Date Collected: 06/17/22 11:55

Matrix: Water

Date Received: 06/17/22 15:21

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/18/22 20:34	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/18/22 20:34	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/18/22 20:34	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/18/22 20:34	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/18/22 20:34	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/18/22 20:34	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/18/22 20:34	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/18/22 20:34	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/18/22 20:34	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/18/22 20:34	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/18/22 20:34	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/18/22 20:34	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/18/22 20:34	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/18/22 20:34	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/18/22 20:34	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/18/22 20:34	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/18/22 20:34	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/18/22 20:34	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/18/22 20:34	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/18/22 20:34	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/18/22 20:34	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/18/22 20:34	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/18/22 20:34	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/18/22 20:34	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/18/22 20:34	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/18/22 20:34	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/18/22 20:34	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/18/22 20:34	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/18/22 20:34	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/18/22 20:34	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/18/22 20:34	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/18/22 20:34	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/18/22 20:34	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/18/22 20:34	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/18/22 20:34	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/18/22 20:34	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/18/22 20:34	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/18/22 20:34	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/18/22 20:34	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/18/22 20:34	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/18/22 20:34	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/18/22 20:34	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/18/22 20:34	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/18/22 20:34	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/18/22 20:34	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/18/22 20:34	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/18/22 20:34	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/18/22 20:34	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			06/18/22 20:34	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16027-1

Date Collected: 06/17/22 11:55

Matrix: Water

Date Received: 06/17/22 15:21

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/18/22 20:34	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/18/22 20:34	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/18/22 20:34	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/18/22 20:34	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/18/22 20:34	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/18/22 20:34	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/18/22 20:34	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/18/22 20:34	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			06/18/22 20:34	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			06/18/22 20:34	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/18/22 20:34	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			06/18/22 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		06/18/22 20:34	1
Dibromofluoromethane (Surr)	102		75 - 131		06/18/22 20:34	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		06/18/22 20:34	1
Toluene-d8 (Surr)	100		80 - 117		06/18/22 20:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.918	U	4.64	0.918 mg/L			06/23/22 18:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.918	U	4.64	0.918 mg/L		06/20/22 10:35	06/20/22 15:33	1
Diesel Range Organics (Over C10-C28)	<0.918	U	4.64	0.918 mg/L		06/20/22 10:35	06/20/22 15:33	1
Oil Range Organics (Over C28-C36)	<0.886	U	4.64	0.886 mg/L		06/20/22 10:35	06/20/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 135			06/20/22 10:35	06/20/22 15:33	1
o-Terphenyl	91		70 - 135			06/20/22 10:35	06/20/22 15:33	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.5		0.500	0.200 mg/L			06/18/22 16:18	1
Nitrate as N	0.146		0.100	0.0391 mg/L			06/18/22 16:18	1
Fluoride	0.710		0.500	0.100 mg/L			06/18/22 16:18	1
Nitrite as N	0.275		0.100	0.0293 mg/L			06/18/22 16:18	1
Sulfate	47.9		0.500	0.109 mg/L			06/18/22 16:18	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	253		4.00	4.00 mg/L			06/21/22 12:55	1
Bicarbonate Alkalinity as CaCO3	253		4.00	4.00 mg/L			06/21/22 12:55	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/21/22 12:55	1
Carbon dioxide	244			mg/L			06/23/22 20:49	1
Carbon Dioxide, Free	21.1			mg/L			06/23/22 20:49	1
pH	7.3	HF		SU			06/20/22 13:14	1

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Client Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16027-1

Date Collected: 06/17/22 11:55

Matrix: Water

Date Received: 06/17/22 15:21

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	18.3	HF		Degrees C			06/20/22 13:14	1
Sulfide	<0.495	U	5.00	0.495 mg/L			06/20/22 21:23	1

Client Sample ID: MW-2

Lab Sample ID: 880-16027-2

Date Collected: 06/17/22 12:45

Matrix: Water

Date Received: 06/17/22 15:21

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0214		0.00100	0.000214 mg/L			06/18/22 20:54	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/18/22 20:54	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/18/22 20:54	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/18/22 20:54	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/18/22 20:54	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/18/22 20:54	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/18/22 20:54	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/18/22 20:54	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/18/22 20:54	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/18/22 20:54	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/18/22 20:54	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/18/22 20:54	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/18/22 20:54	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/18/22 20:54	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/18/22 20:54	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/18/22 20:54	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/18/22 20:54	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/18/22 20:54	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/18/22 20:54	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/18/22 20:54	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/18/22 20:54	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/18/22 20:54	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/18/22 20:54	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/18/22 20:54	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/18/22 20:54	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/18/22 20:54	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/18/22 20:54	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/18/22 20:54	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/18/22 20:54	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/18/22 20:54	1
Ethylbenzene	0.0262		0.00100	0.000515 mg/L			06/18/22 20:54	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/18/22 20:54	1
Isopropylbenzene	0.0132		0.00100	0.000161 mg/L			06/18/22 20:54	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/18/22 20:54	1
m,p-Xylenes	0.126		0.0100	0.000330 mg/L			06/18/22 20:54	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/18/22 20:54	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/18/22 20:54	1
n-Butylbenzene	0.00115		0.00100	0.000286 mg/L			06/18/22 20:54	1
N-Propylbenzene	0.00436		0.00100	0.000179 mg/L			06/18/22 20:54	1
o-Xylene	0.00984		0.00100	0.000192 mg/L			06/18/22 20:54	1
p-Cymene (p-Isopropyltoluene)	0.00139		0.00100	0.000233 mg/L			06/18/22 20:54	1

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Client Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-16027-2

Date Collected: 06/17/22 12:45

Matrix: Water

Date Received: 06/17/22 15:21

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.00161		0.00100	0.000199 mg/L			06/18/22 20:54	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/18/22 20:54	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/18/22 20:54	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/18/22 20:54	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/18/22 20:54	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/18/22 20:54	1
Toluene	0.00267		0.00100	0.000500 mg/L			06/18/22 20:54	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			06/18/22 20:54	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/18/22 20:54	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/18/22 20:54	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/18/22 20:54	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/18/22 20:54	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/18/22 20:54	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/18/22 20:54	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/18/22 20:54	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/18/22 20:54	1
1,2,4-Trimethylbenzene	0.0490		0.00100	0.000252 mg/L			06/18/22 20:54	1
1,3,5-Trimethylbenzene	0.0130		0.00100	0.000279 mg/L			06/18/22 20:54	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/18/22 20:54	1
Xylenes, Total	0.136		0.0100	0.000330 mg/L			06/18/22 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		06/18/22 20:54	1
Dibromofluoromethane (Surr)	102		75 - 131		06/18/22 20:54	1
1,2-Dichloroethane-d4 (Surr)	111		63 - 144		06/18/22 20:54	1
Toluene-d8 (Surr)	99		80 - 117		06/18/22 20:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.49	J	4.53	0.895 mg/L			06/23/22 18:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.49	J	4.53	0.895 mg/L		06/20/22 10:35	06/20/22 15:54	1
Diesel Range Organics (Over C10-C28)	<0.895	U	4.53	0.895 mg/L		06/20/22 10:35	06/20/22 15:54	1
Oil Range Organics (Over C28-C36)	<0.864	U	4.53	0.864 mg/L		06/20/22 10:35	06/20/22 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 135	06/20/22 10:35	06/20/22 15:54	1
o-Terphenyl	92		70 - 135	06/20/22 10:35	06/20/22 15:54	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.0		0.500	0.200 mg/L			06/18/22 17:24	1
Nitrate as N	0.395		0.100	0.0391 mg/L			06/18/22 17:24	1
Fluoride	0.213	J	0.500	0.100 mg/L			06/18/22 17:24	1
Nitrite as N	0.702		0.100	0.0293 mg/L			06/18/22 17:24	1
Sulfate	102		0.500	0.109 mg/L			06/18/22 17:24	1

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Client Sample Results

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

Job ID: 880-16027-1

Client Sample ID: MW-2
Date Collected: 06/17/22 12:45
Date Received: 06/17/22 15:21

Lab Sample ID: 880-16027-2
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1290		4.00	4.00	mg/L			06/21/22 13:20	1
Bicarbonate Alkalinity as CaCO3	1290		4.00	4.00	mg/L			06/21/22 13:20	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			06/21/22 13:20	1
Carbon dioxide	2030				mg/L			06/23/22 20:49	1
Carbon Dioxide, Free	894				mg/L			06/23/22 20:49	1
pH	6.4	HF			SU			06/20/22 13:17	1
Temperature	17.8	HF			Degrees C			06/20/22 13:17	1
Sulfide	<0.495	U	5.00	0.495	mg/L			06/20/22 21:23	1

Surrogate Summary

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

Job ID: 880-16027-1

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
860-28167-L-1 MS	Matrix Spike	100	100	102	100
880-16027-1	MW-1	104	102	108	100
880-16027-2	MW-2	99	102	111	99
LCS 860-57528/3	Lab Control Sample	101	102	101	99
LCSD 860-57528/4	Lab Control Sample Dup	100	99	101	99
MB 860-57528/9	Method Blank	102	99	104	101
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-135)	(70-135)
880-16027-1	MW-1	75	91
880-16027-2	MW-2	76	92
LCS 860-57619/2-A	Lab Control Sample	78	90
LCSD 860-57619/3-A	Lab Control Sample Dup	78	89
MB 860-57619/1-A	Method Blank	74	89
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-57528/9

Matrix: Water

Analysis Batch: 57528

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/18/22 14:45	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/18/22 14:45	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/18/22 14:45	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/18/22 14:45	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/18/22 14:45	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/18/22 14:45	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/18/22 14:45	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/18/22 14:45	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/18/22 14:45	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/18/22 14:45	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/18/22 14:45	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/18/22 14:45	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/18/22 14:45	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/18/22 14:45	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/18/22 14:45	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/18/22 14:45	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/18/22 14:45	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/18/22 14:45	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/18/22 14:45	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/18/22 14:45	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/18/22 14:45	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/18/22 14:45	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/18/22 14:45	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/18/22 14:45	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/18/22 14:45	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/18/22 14:45	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/18/22 14:45	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/18/22 14:45	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/18/22 14:45	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/18/22 14:45	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/18/22 14:45	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/18/22 14:45	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/18/22 14:45	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/18/22 14:45	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/18/22 14:45	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/18/22 14:45	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/18/22 14:45	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/18/22 14:45	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/18/22 14:45	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/18/22 14:45	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/18/22 14:45	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/18/22 14:45	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/18/22 14:45	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/18/22 14:45	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/18/22 14:45	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/18/22 14:45	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/18/22 14:45	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/18/22 14:45	1

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QC Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-57528/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 57528

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		06/18/22 14:45	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		06/18/22 14:45	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		06/18/22 14:45	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		06/18/22 14:45	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L		06/18/22 14:45	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L		06/18/22 14:45	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L		06/18/22 14:45	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L		06/18/22 14:45	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L		06/18/22 14:45	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L		06/18/22 14:45	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L		06/18/22 14:45	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L		06/18/22 14:45	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L		06/18/22 14:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		06/18/22 14:45	1
Dibromofluoromethane (Surr)	99		75 - 131		06/18/22 14:45	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		06/18/22 14:45	1
Toluene-d8 (Surr)	101		80 - 117		06/18/22 14:45	1

Lab Sample ID: LCS 860-57528/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 57528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04939		mg/L		99	66 - 142
Bromobenzene	0.0500	0.05077		mg/L		102	75 - 125
Bromochloromethane	0.0500	0.04955		mg/L		99	60 - 140
Bromodichloromethane	0.0500	0.04962		mg/L		99	75 - 125
Bromoform	0.0500	0.04739		mg/L		95	75 - 125
Bromomethane	0.0500	0.04543		mg/L		91	60 - 140
2-Butanone	0.250	0.2306		mg/L		92	60 - 140
Carbon tetrachloride	0.0500	0.05457		mg/L		109	62 - 125
Chlorobenzene	0.0500	0.04917		mg/L		98	60 - 133
Chloroethane	0.0500	0.05554		mg/L		111	60 - 140
Chloroform	0.0500	0.05002		mg/L		100	70 - 130
Chloromethane	0.0500	0.05067		mg/L		101	60 - 140
2-Chlorotoluene	0.0500	0.05050		mg/L		101	73 - 125
4-Chlorotoluene	0.0500	0.05026		mg/L		101	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04930		mg/L		99	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05078		mg/L		102	74 - 125
Dibromochloromethane	0.0500	0.04831		mg/L		97	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04759		mg/L		95	59 - 125
1,2-Dibromoethane	0.0500	0.04741		mg/L		95	73 - 125
1,2-Dichlorobenzene	0.0500	0.05018		mg/L		100	75 - 125
1,3-Dichlorobenzene	0.0500	0.05061		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05079		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.06232		mg/L		125	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-57528/3

Matrix: Water

Analysis Batch: 57528

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	0.05005		mg/L		100	72 - 125
1,2-Dichloroethane	0.0500	0.04990		mg/L		100	68 - 127
1,1-Dichloroethene	0.0500	0.05177		mg/L		104	59 - 172
1,2-Dichloropropane	0.0500	0.04869		mg/L		97	74 - 125
1,3-Dichloropropane	0.0500	0.04856		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.05359		mg/L		107	75 - 125
1,1-Dichloropropene	0.0500	0.05151		mg/L		103	75 - 125
Ethylbenzene	0.0500	0.04944		mg/L		99	75 - 125
Hexachlorobutadiene	0.0500	0.05375		mg/L		107	75 - 125
Isopropylbenzene	0.0500	0.04987		mg/L		100	75 - 125
Methylene Chloride	0.0500	0.04667		mg/L		93	75 - 125
m,p-Xylenes	0.0500	0.04956		mg/L		99	75 - 125
MTBE	0.0500	0.04635		mg/L		93	65 - 135
Naphthalene	0.0500	0.04609		mg/L		92	70 - 130
n-Butylbenzene	0.0500	0.05337		mg/L		107	75 - 125
N-Propylbenzene	0.0500	0.05126		mg/L		103	75 - 125
o-Xylene	0.0500	0.04972		mg/L		99	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05087		mg/L		102	75 - 125
sec-Butylbenzene	0.0500	0.05142		mg/L		103	75 - 125
Styrene	0.0500	0.04971		mg/L		99	75 - 125
tert-Butylbenzene	0.0500	0.05111		mg/L		102	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04766		mg/L		95	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04581		mg/L		92	74 - 125
Tetrachloroethene	0.0500	0.05120		mg/L		102	71 - 125
Toluene	0.0500	0.04861		mg/L		97	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04852		mg/L		97	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04905		mg/L		98	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04666		mg/L		93	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04920		mg/L		98	75 - 135
1,1,1-Trichloroethane	0.0500	0.05221		mg/L		104	75 - 125
1,1,2-Trichloroethane	0.0500	0.04678		mg/L		94	75 - 127
Trichloroethene	0.0500	0.05053		mg/L		101	62 - 137
Trichlorofluoromethane	0.0500	0.05893		mg/L		118	60 - 140
1,2,3-Trichloropropane	0.0500	0.04421		mg/L		88	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05047		mg/L		101	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05074		mg/L		101	60 - 140
Vinyl chloride	0.0500	0.05677		mg/L		114	60 - 140

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

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-57528/4

Matrix: Water

Analysis Batch: 57528

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	0.04710		mg/L		94	66 - 142	5	25
Bromobenzene	0.0500	0.04817		mg/L		96	75 - 125	5	25
Bromochloromethane	0.0500	0.04744		mg/L		95	60 - 140	4	25
Bromodichloromethane	0.0500	0.04799		mg/L		96	75 - 125	3	25
Bromoform	0.0500	0.04649		mg/L		93	75 - 125	2	25
Bromomethane	0.0500	0.04201		mg/L		84	60 - 140	8	25
2-Butanone	0.250	0.2303		mg/L		92	60 - 140	0	25
Carbon tetrachloride	0.0500	0.05084		mg/L		102	62 - 125	7	25
Chlorobenzene	0.0500	0.04744		mg/L		95	60 - 133	4	25
Chloroethane	0.0500	0.05128		mg/L		103	60 - 140	8	25
Chloroform	0.0500	0.04775		mg/L		95	70 - 130	5	25
Chloromethane	0.0500	0.04758		mg/L		95	60 - 140	6	25
2-Chlorotoluene	0.0500	0.04771		mg/L		95	73 - 125	6	25
4-Chlorotoluene	0.0500	0.04784		mg/L		96	74 - 125	5	25
cis-1,2-Dichloroethene	0.0500	0.04729		mg/L		95	75 - 125	4	25
cis-1,3-Dichloropropene	0.0500	0.04896		mg/L		98	74 - 125	4	25
Dibromochloromethane	0.0500	0.04738		mg/L		95	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04800		mg/L		96	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.04722		mg/L		94	73 - 125	0	25
1,2-Dichlorobenzene	0.0500	0.04749		mg/L		95	75 - 125	6	25
1,3-Dichlorobenzene	0.0500	0.04772		mg/L		95	75 - 125	6	25
1,4-Dichlorobenzene	0.0500	0.04836		mg/L		97	75 - 125	5	25
Dichlorodifluoromethane	0.0500	0.05740		mg/L		115	70 - 130	8	25
1,1-Dichloroethane	0.0500	0.04732		mg/L		95	72 - 125	6	25
1,2-Dichloroethane	0.0500	0.04847		mg/L		97	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.04854		mg/L		97	59 - 172	6	25
1,2-Dichloropropane	0.0500	0.04726		mg/L		95	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04761		mg/L		95	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05060		mg/L		101	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.04849		mg/L		97	75 - 125	6	25
Ethylbenzene	0.0500	0.04770		mg/L		95	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05049		mg/L		101	75 - 125	6	25
Isopropylbenzene	0.0500	0.04776		mg/L		96	75 - 125	4	25
Methylene Chloride	0.0500	0.04495		mg/L		90	75 - 125	4	25
m,p-Xylenes	0.0500	0.04780		mg/L		96	75 - 125	4	25
MTBE	0.0500	0.04563		mg/L		91	65 - 135	2	25
Naphthalene	0.0500	0.04834		mg/L		97	70 - 130	5	25
n-Butylbenzene	0.0500	0.05032		mg/L		101	75 - 125	6	25
N-Propylbenzene	0.0500	0.04823		mg/L		96	75 - 125	6	25
o-Xylene	0.0500	0.04786		mg/L		96	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04791		mg/L		96	75 - 125	6	25
sec-Butylbenzene	0.0500	0.04815		mg/L		96	75 - 125	7	25
Styrene	0.0500	0.04804		mg/L		96	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04831		mg/L		97	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.04615		mg/L		92	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.04527		mg/L		91	74 - 125	1	25
Tetrachloroethene	0.0500	0.04797		mg/L		96	71 - 125	7	25
Toluene	0.0500	0.04699		mg/L		94	59 - 139	3	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-57528/4

Matrix: Water

Analysis Batch: 57528

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	0.04650		mg/L		93	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.04774		mg/L		95	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.04803		mg/L		96	75 - 137	3	25
1,2,4-Trichlorobenzene	0.0500	0.04941		mg/L		99	75 - 135	0	25
1,1,1-Trichloroethane	0.0500	0.04914		mg/L		98	75 - 125	6	25
1,1,2-Trichloroethane	0.0500	0.04606		mg/L		92	75 - 127	2	25
Trichloroethene	0.0500	0.04830		mg/L		97	62 - 137	5	25
Trichlorofluoromethane	0.0500	0.05574		mg/L		111	60 - 140	6	25
1,2,3-Trichloropropane	0.0500	0.04412		mg/L		88	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.04738		mg/L		95	75 - 125	6	25
1,3,5-Trimethylbenzene	0.0500	0.04722		mg/L		94	60 - 140	7	25
Vinyl chloride	0.0500	0.05292		mg/L		106	60 - 140	7	25

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

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

Lab Sample ID: MB 860-57619/1-A

Matrix: Water

Analysis Batch: 57647

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57619

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		06/20/22 10:35	06/20/22 14:31	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		06/20/22 10:35	06/20/22 14:31	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		06/20/22 10:35	06/20/22 14:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 135	06/20/22 10:35	06/20/22 14:31	1
o-Terphenyl	89		70 - 135	06/20/22 10:35	06/20/22 14:31	1

Lab Sample ID: LCS 860-57619/2-A

Matrix: Water

Analysis Batch: 57647

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.9	86.68		mg/L		87	70 - 135
Diesel Range Organics (Over C10-C28)	99.8	95.15		mg/L		95	70 - 135

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

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QC Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-57619/3-A

Matrix: Water

Analysis Batch: 57647

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57619

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.9	93.51		mg/L		94	70 - 135	8	35
Diesel Range Organics (Over C10-C28)	99.8	96.97		mg/L		97	70 - 135	2	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	78		70 - 135						
o-Terphenyl	89		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-57526/3

Matrix: Water

Analysis Batch: 57526

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200 mg/L			06/18/22 12:59	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/18/22 12:59	1
Sulfate	<0.109	U	0.500	0.109 mg/L			06/18/22 12:59	1

Lab Sample ID: LCS 860-57526/6

Matrix: Water

Analysis Batch: 57526

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	9.493		mg/L		95	90 - 110
Fluoride	10.0	9.865		mg/L		99	90 - 110
Sulfate	10.0	9.591		mg/L		96	90 - 110

Lab Sample ID: LCSD 860-57526/7

Matrix: Water

Analysis Batch: 57526

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	9.492		mg/L		95	90 - 110	0	20
Fluoride	10.0	9.927		mg/L		99	90 - 110	1	20
Sulfate	10.0	9.657		mg/L		97	90 - 110	1	20

Lab Sample ID: LLCS 860-57526/5

Matrix: Water

Analysis Batch: 57526

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	0.5431		mg/L		109	50 - 150
Fluoride	0.500	0.4276	J	mg/L		86	50 - 150
Sulfate	0.500	0.4716	J	mg/L		94	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-16027-1 MS

Matrix: Water

Analysis Batch: 57526

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	83.5		10.0	91.55	4	mg/L		81	90 - 110
Fluoride	0.710		10.0	10.71		mg/L		100	90 - 110
Sulfate	47.9		10.0	57.32	4	mg/L		94	90 - 110

Lab Sample ID: 880-16027-1 MSD

Matrix: Water

Analysis Batch: 57526

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	83.5		10.0	91.59	4	mg/L		81	90 - 110	0	20
Fluoride	0.710		10.0	10.76		mg/L		100	90 - 110	0	20
Sulfate	47.9		10.0	57.24	4	mg/L		94	90 - 110	0	20

Lab Sample ID: MB 860-57527/3

Matrix: Water

Analysis Batch: 57527

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			06/18/22 12:59	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/18/22 12:59	1

Lab Sample ID: LCS 860-57527/6

Matrix: Water

Analysis Batch: 57527

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	9.461		mg/L		95	80 - 120
Nitrite as N	5.00	4.701		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-57527/7

Matrix: Water

Analysis Batch: 57527

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	9.533		mg/L		95	80 - 120	1	20
Nitrite as N	5.00	4.784		mg/L		96	80 - 120	2	20

Lab Sample ID: LLCS 860-57527/4

Matrix: Water

Analysis Batch: 57527

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	0.09716	J	mg/L		97	50 - 150
Nitrite as N	0.100	0.1009		mg/L		101	50 - 150

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QC Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-16027-1 MS

Matrix: Water

Analysis Batch: 57527

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	0.146		10.0	9.603		mg/L		95	80 - 120
Nitrite as N	0.275		2.50	2.416		mg/L		86	80 - 120

Lab Sample ID: 880-16027-1 MSD

Matrix: Water

Analysis Batch: 57527

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	0.146		10.0	9.591		mg/L		94	80 - 120	0	15
Nitrite as N	0.275		2.50	2.414		mg/L		86	80 - 120	0	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-57921/7

Matrix: Water

Analysis Batch: 57921

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			06/21/22 12:20	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/21/22 12:20	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/21/22 12:20	1

Lab Sample ID: LCS 860-57921/8

Matrix: Water

Analysis Batch: 57921

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	267.3		mg/L		107	85 - 115

Lab Sample ID: LCSD 860-57921/9

Matrix: Water

Analysis Batch: 57921

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	269.7		mg/L		108	85 - 115	1	20

Lab Sample ID: 880-16027-1 DU

Matrix: Water

Analysis Batch: 57921

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	253		254.0		mg/L		0.4	20
Bicarbonate Alkalinity as CaCO3	253		254.0		mg/L		0.4	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

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QC Sample Results

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-16027-1 DU

Matrix: Water

Analysis Batch: 57680

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.3	HF	7.3		SU		0.1	20
Temperature	18.3	HF	18.1		Degrees C		1	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-57760/1

Matrix: Water

Analysis Batch: 57760

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			06/20/22 21:23	1

Lab Sample ID: LCS 860-57760/2

Matrix: Water

Analysis Batch: 57760

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	46.40		mg/L		93	80 - 120

Lab Sample ID: LCSD 860-57760/3

Matrix: Water

Analysis Batch: 57760

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Sulfide	50.0	46.40		mg/L		93	80 - 120	0	20

Lab Sample ID: 880-16027-2 MS

Matrix: Water

Analysis Batch: 57760

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

Lab Sample ID: 880-16027-2 MSD

Matrix: Water

Analysis Batch: 57760

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	Limit
Sulfide	<0.495	U	50.0	45.20		mg/L		90	80 - 120	0	20

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 57528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16027-1	MW-1	Total/NA	Water	8260C	
880-16027-2	MW-2	Total/NA	Water	8260C	
MB 860-57528/9	Method Blank	Total/NA	Water	8260C	
LCS 860-57528/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-57528/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 55049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16027-1	MW-1	Total/NA	Water	8015 NM	
880-16027-2	MW-2	Total/NA	Water	8015 NM	

Prep Batch: 57619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16027-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-16027-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-57619/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-57619/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-57619/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 57647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16027-1	MW-1	Total/NA	Water	8015B NM	57619
880-16027-2	MW-2	Total/NA	Water	8015B NM	57619
MB 860-57619/1-A	Method Blank	Total/NA	Water	8015B NM	57619
LCS 860-57619/2-A	Lab Control Sample	Total/NA	Water	8015B NM	57619
LCSD 860-57619/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	57619

HPLC/IC

Analysis Batch: 57526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16027-1	MW-1	Total/NA	Water	300.0	
880-16027-2	MW-2	Total/NA	Water	300.0	
MB 860-57526/3	Method Blank	Total/NA	Water	300.0	
LCS 860-57526/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-57526/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-57526/5	Lab Control Sample	Total/NA	Water	300.0	
880-16027-1 MS	MW-1	Total/NA	Water	300.0	
880-16027-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 57527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16027-1	MW-1	Total/NA	Water	300.0	
880-16027-2	MW-2	Total/NA	Water	300.0	
MB 860-57527/3	Method Blank	Total/NA	Water	300.0	
LCS 860-57527/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-57527/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-57527/4	Lab Control Sample	Total/NA	Water	300.0	
880-16027-1 MS	MW-1	Total/NA	Water	300.0	
880-16027-1 MSD	MW-1	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-16027-1

Project/Site: South Hobbs - 03B1417002

General Chemistry

Analysis Batch: 57680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16027-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-16027-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-16027-1 DU	MW-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 57760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16027-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-16027-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-57760/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-57760/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-57760/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-16027-2 MS	MW-2	Total/NA	Water	SM 4500 S2 F	
880-16027-2 MSD	MW-2	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 57921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16027-1	MW-1	Total/NA	Water	SM 2320B	
880-16027-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-57921/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-57921/8	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-57921/9	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 860-57921/10	Lab Control Sample	Total/NA	Water	SM 2320B	
880-16027-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 58328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16027-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-16027-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-16027-1

Client Sample ID: MW-1

Date Collected: 06/17/22 11:55

Date Received: 06/17/22 15:21

Lab Sample ID: 880-16027-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	57528	06/18/22 20:34	A1S	XEN STF
Total/NA	Analysis	8015 NM		1	55049	06/23/22 18:17	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			57619	06/20/22 10:35	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	57647	06/20/22 15:33	T1S	XEN STF
Total/NA	Analysis	300.0		1	57526	06/18/22 16:18	ANP	XEN STF
Total/NA	Analysis	300.0		1	57527	06/18/22 16:18	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	57921	06/21/22 12:55	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	58328	06/23/22 20:49	ANP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	57680	06/20/22 13:14	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	57760	06/20/22 21:23	YGG	XEN STF

Client Sample ID: MW-2

Date Collected: 06/17/22 12:45

Date Received: 06/17/22 15:21

Lab Sample ID: 880-16027-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	57528	06/18/22 20:54	A1S	XEN STF
Total/NA	Analysis	8015 NM		1	55049	06/23/22 18:17	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			57619	06/20/22 10:35	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	57647	06/20/22 15:54	T1S	XEN STF
Total/NA	Analysis	300.0		1	57526	06/18/22 17:24	ANP	XEN STF
Total/NA	Analysis	300.0		1	57527	06/18/22 17:24	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	57921	06/21/22 13:20	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	58328	06/23/22 20:49	ANP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	57680	06/20/22 13:17	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	57760	06/20/22 21:23	YGG	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-16027-1

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	T104704215-21-44	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	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: 880-16027-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
SM 4500 S2 F	Sulfide, Total	SM	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Aq Prep	Microextraction	SW846	XEN STF

Protocol References:

- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- 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:

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

Sample Summary

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

Job ID: 880-16027-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16027-1	MW-1	Water	06/17/22 11:55	06/17/22 15:21
880-16027-2	MW-2	Water	06/17/22 12:45	06/17/22 15:21

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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)

www.xenco.com Page 1 of 1

Work Order No: 16007

Project Manager:	Beaux Jennings	Bill to (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	432-230-3344	Email:	bjenings@ensolum.com

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

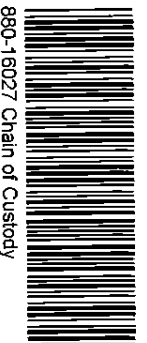
[illegible]

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 \$6 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
		10/17/22			
		15.21			

Eurofins Midland Temp **2.0** IR ID: HOU-323
1211 W Florida Ave C/F: -0.0
Midland, TX 79701 Corrected Temp: **2.0**
Phone: 432-704-5440

Chain of Custody Record



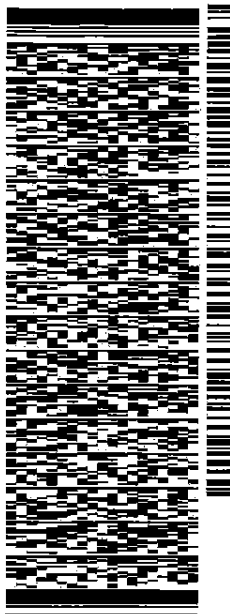
Environment Testing
America

880-16027 Chain of Custody

Client Information (Sub Contract Lab)		Lab Pk:	Kramer, Jessica
Client Contract	Phone:	E-Mail:	Jessica.Kramer@eurofins.com
Shipping/Receiving	Company:	Accreditation Required (See note):	NE LAP Texas
Eurofins Environment Testing South Cent		State of Origin:	New Mexico
Address:	4145 Greenbriar Dr	Date Data Requested:	6/19/2022
City:	Stafford	TAT Requested (days):	
State Zip:	TX 77477	PO #:	
Phone:	281-240-4200(Tel)	Project #:	88000023
Email:		SSOW#:	
Project Name:	South Hobbs 03B1417002	Project #:	88000023
Site:	South Hobbs	SSOW#:	
Sample Identification Client ID (Lab ID)			
Sample ID	Sample Date	Sample Type (C=Comp, G=grab)	Matrix (Specimen, Sample, Matrix, Other)
MMW-1 (880-16027-1)	6/17/22	11.55 Mountain	Water
MMW-2 (880-16027-2)	6/17/22	12.45 Mountain	Water
Analysis Requested			
SM4500_CO2_D (MOD) Carbon Dioxide			
SM4500_H+			
SM4500_S2_F/ Sulfide, Total			
8260C/6030C (MOD) Full List VOCs			
8015MOD_NM/8015NM_Aq_Prep (MOD) Full TPH			
300_ORGFM_28D/ (MOD) Custom List			
300_ORGFM3/ (MOD) Custom List			
2320B/ (MOD) Copy Analytes			
8016MOD_Calc			
Special Instructions/Note:			
DISSOLVED SULFIDE			
DISSOLVED SULFIDE			
Other:			
A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Anchor H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA M. Hexane N. None O. ASA/Q2 P. Na2O/S Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Decahydrate U. Acetone V. MCAA W. pH 4-5 Y. Trizma Z. 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			
Unconfirmed Deliverable Requested I, II, III, IV Other (specify) Primary Deliverable Rank: 2			
Empty Kit Relinquished by:		Date:	Time:
Relinquished by:		Date/Time:	Company:
Relinquished by:		Date/Time:	Company:
Relinquished by:		Date/Time:	Company:
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.	
Cooler Temperature(s) °C and Other Remarks:			

6/17/22 3 52 PM

FedEx Ship Manager Print Your Label(s)

ORIGIN ID: MAFIA (432) 563-4800 SAMPLE RECEIVING XENCO LABORATORIES-ODESSA 1211 W FLORIDA AVE MIDLAND, TX 79701 UNITED STATES US	SHIP DATE: 17 JUN 22 ACT WT: 80.00 LB CAD: 7354048INET14490
TO LAB RECEIVING XENCO- HOUSTON 4145 GREENBRIAR DR STAFFORD TX 77477	
REF: (281) 240-4200 PO: DEPT:	
581J2274FFE4A	
	
J222022041201uv	
	
1 of 2 SATURDAY 12:00P PRIORITY OVERNIGHT	
TRK# 7771 6551 4386 0201 ## MASTER ## X0 SGRA 77477 TX:US IAH	
	

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- 2 Fold the printed page along the horizontal line
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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-16027-1

Login Number: 16027

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: 880-16027-1

Login Number: 16027

List Number: 2

Creator: Torres, Sandra

List Source: Eurofins Houston

List Creation: 06/18/22 10:23 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16251-1

Laboratory Sample Delivery Group: Hobbs NM

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

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Authorized for release by:

6/30/2022 7:53:32 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



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

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

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

Laboratory Job ID: 880-16251-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-16251-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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
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: 880-16251-1
SDG: Hobbs NM

Job ID: 880-16251-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-16251-1**

Receipt

The sample was received on 6/23/2022 3:24 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-58362 recovered outside control limits for the following analytes: 2,2-Dichloropropane and Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-58362 recovered outside control limits for the following analytes: Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The matrix spike(MS) recoveries for analytical batch 860-58362 were outside control limits. Sample matrix interference is suspected.

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 860-58322 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 200.7: Due to the high concentration of calcium and sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-58687 and analytical batch 860-58847 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 200.7: Due to the high concentration of calcium and sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-58687 and analytical batch 860-58847 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.

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: 880-16251-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-16251-1

Date Collected: 06/23/22 10:20

Matrix: Water

Date Received: 06/23/22 15:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00344		0.00100	0.000214	mg/L		06/24/22 17:37	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		06/24/22 17:37	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		06/24/22 17:37	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		06/24/22 17:37	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		06/24/22 17:37	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		06/24/22 17:37	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		06/24/22 17:37	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		06/24/22 17:37	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		06/24/22 17:37	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		06/24/22 17:37	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		06/24/22 17:37	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		06/24/22 17:37	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		06/24/22 17:37	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		06/24/22 17:37	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		06/24/22 17:37	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		06/24/22 17:37	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		06/24/22 17:37	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		06/24/22 17:37	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		06/24/22 17:37	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		06/24/22 17:37	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		06/24/22 17:37	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		06/24/22 17:37	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		06/24/22 17:37	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		06/24/22 17:37	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		06/24/22 17:37	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		06/24/22 17:37	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		06/24/22 17:37	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		06/24/22 17:37	1
2,2-Dichloropropane	<0.000360	U +	0.00500	0.000360	mg/L		06/24/22 17:37	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		06/24/22 17:37	1
Ethylbenzene	0.0149		0.00100	0.000515	mg/L		06/24/22 17:37	1
Hexachlorobutadiene	<0.00200	U +	0.00500	0.00200	mg/L		06/24/22 17:37	1
Isopropylbenzene	0.00715		0.00100	0.000161	mg/L		06/24/22 17:37	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		06/24/22 17:37	1
m,p-Xylenes	0.0599		0.0100	0.000330	mg/L		06/24/22 17:37	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		06/24/22 17:37	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		06/24/22 17:37	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		06/24/22 17:37	1
N-Propylbenzene	0.00313		0.00100	0.000179	mg/L		06/24/22 17:37	1
o-Xylene	0.00959		0.00100	0.000192	mg/L		06/24/22 17:37	1
p-Cymene (p-Isopropyltoluene)	0.000733	J	0.00100	0.000233	mg/L		06/24/22 17:37	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L		06/24/22 17:37	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		06/24/22 17:37	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		06/24/22 17:37	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		06/24/22 17:37	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		06/24/22 17:37	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		06/24/22 17:37	1
Toluene	0.0304		0.00100	0.000500	mg/L		06/24/22 17:37	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		06/24/22 17:37	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-16251-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-16251-1

Date Collected: 06/23/22 10:20

Matrix: Water

Date Received: 06/23/22 15:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/24/22 17:37	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/24/22 17:37	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/24/22 17:37	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/24/22 17:37	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/24/22 17:37	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/24/22 17:37	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/24/22 17:37	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/24/22 17:37	1
1,2,4-Trimethylbenzene	0.0161		0.00100	0.000252 mg/L			06/24/22 17:37	1
1,3,5-Trimethylbenzene	0.00509		0.00100	0.000279 mg/L			06/24/22 17:37	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/24/22 17:37	1
Xylenes, Total	0.0695		0.0100	0.000330 mg/L			06/24/22 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		74 - 124		06/24/22 17:37	1
Dibromofluoromethane (Surr)	100		75 - 131		06/24/22 17:37	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		06/24/22 17:37	1
Toluene-d8 (Surr)	98		80 - 117		06/24/22 17:37	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.321	J	0.500	0.0711 mg/L			06/24/22 19:24	1
Nitrate as N	0.250		0.100	0.0391 mg/L			06/24/22 19:24	1
Chloride	206		0.500	0.200 mg/L			06/24/22 19:24	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/24/22 19:24	1
Fluoride	0.377	J	0.500	0.100 mg/L			06/24/22 19:24	1
Sulfate	38.4		0.500	0.109 mg/L			06/24/22 19:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	306		10.0	1.47 mg/L		06/27/22 12:30	06/28/22 03:02	50
Magnesium	47.2		0.200	0.0500 mg/L		06/27/22 12:30	06/28/22 01:39	1
Potassium	3.80		0.500	0.107 mg/L		06/27/22 12:30	06/28/22 01:39	1
Sodium	73.0		0.500	0.0667 mg/L		06/27/22 12:30	06/28/22 01:39	1
SiO2	64.2		1.07	0.0781 mg/L		06/27/22 12:30	06/28/22 01:39	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	11.3			%			06/30/22 17:22	1
Alkalinity	454		4.00	4.00 mg/L			06/25/22 11:32	1
Bicarbonate Alkalinity as CaCO3	454		4.00	4.00 mg/L			06/25/22 11:32	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/25/22 11:32	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			06/25/22 11:32	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			06/25/22 11:32	1
Total Dissolved Solids	1150		10.0	10.0 mg/L			06/27/22 14:42	1
pH	6.5	HF		SU			06/24/22 17:37	1
Temperature	17.9	HF		Degrees C			06/24/22 17:37	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-16251-1
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)	(80-117)
860-28263-B-6 MS	Matrix Spike	99	97	97	99
880-16251-1	Levey Well	95	100	105	98
LCS 860-58362/3	Lab Control Sample	100	98	100	99
LCSD 860-58362/4	Lab Control Sample Dup	100	99	98	99
MB 860-58362/9	Method Blank	99	98	103	98
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-16251-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-58362/9

Matrix: Water

Analysis Batch: 58362

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/24/22 15:05	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/24/22 15:05	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/24/22 15:05	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/24/22 15:05	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/24/22 15:05	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/24/22 15:05	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/24/22 15:05	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/24/22 15:05	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/24/22 15:05	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/24/22 15:05	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/24/22 15:05	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/24/22 15:05	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/24/22 15:05	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/24/22 15:05	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/24/22 15:05	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/24/22 15:05	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/24/22 15:05	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/24/22 15:05	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/24/22 15:05	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/24/22 15:05	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/24/22 15:05	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/24/22 15:05	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/24/22 15:05	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/24/22 15:05	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/24/22 15:05	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/24/22 15:05	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/24/22 15:05	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/24/22 15:05	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/24/22 15:05	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/24/22 15:05	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/24/22 15:05	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/24/22 15:05	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/24/22 15:05	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/24/22 15:05	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/24/22 15:05	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/24/22 15:05	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/24/22 15:05	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/24/22 15:05	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/24/22 15:05	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/24/22 15:05	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/24/22 15:05	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/24/22 15:05	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/24/22 15:05	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/24/22 15:05	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/24/22 15:05	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/24/22 15:05	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/24/22 15:05	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/24/22 15:05	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-16251-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-58362/9

Matrix: Water

Analysis Batch: 58362

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	<0.000256	U	0.00100	0.000256	mg/L		06/24/22 15:05	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		06/24/22 15:05	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		06/24/22 15:05	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		06/24/22 15:05	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L		06/24/22 15:05	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L		06/24/22 15:05	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L		06/24/22 15:05	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L		06/24/22 15:05	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L		06/24/22 15:05	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L		06/24/22 15:05	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L		06/24/22 15:05	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L		06/24/22 15:05	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L		06/24/22 15:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		06/24/22 15:05	1
Dibromofluoromethane (Surr)	98		75 - 131		06/24/22 15:05	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		06/24/22 15:05	1
Toluene-d8 (Surr)	98		80 - 117		06/24/22 15:05	1

Lab Sample ID: LCS 860-58362/3

Matrix: Water

Analysis Batch: 58362

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	0.05048		mg/L		101	66 - 142
Bromobenzene	0.0500	0.05380		mg/L		108	75 - 125
Bromochloromethane	0.0500	0.04968		mg/L		99	60 - 140
Bromodichloromethane	0.0500	0.05650		mg/L		113	75 - 125
Bromoform	0.0500	0.05340		mg/L		107	75 - 125
Bromomethane	0.0500	0.04675		mg/L		94	60 - 140
2-Butanone	0.250	0.2138		mg/L		86	60 - 140
Carbon tetrachloride	0.0500	0.05861		mg/L		117	62 - 125
Chlorobenzene	0.0500	0.05163		mg/L		103	60 - 133
Chloroethane	0.0500	0.03940		mg/L		79	60 - 140
Chloroform	0.0500	0.05241		mg/L		105	70 - 130
Chloromethane	0.0500	0.03933		mg/L		79	60 - 140
2-Chlorotoluene	0.0500	0.05443		mg/L		109	73 - 125
4-Chlorotoluene	0.0500	0.05488		mg/L		110	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05258		mg/L		105	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05051		mg/L		101	74 - 125
Dibromochloromethane	0.0500	0.05114		mg/L		102	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04780		mg/L		96	59 - 125
1,2-Dibromoethane	0.0500	0.05447		mg/L		109	73 - 125
1,2-Dichlorobenzene	0.0500	0.05318		mg/L		106	75 - 125
1,3-Dichlorobenzene	0.0500	0.05376		mg/L		108	75 - 125
1,4-Dichlorobenzene	0.0500	0.05108		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.04435		mg/L		89	70 - 130

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QC Sample Results

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

Job ID: 880-16251-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-58362/3

Matrix: Water

Analysis Batch: 58362

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	0.04992		mg/L		100	72 - 125
1,2-Dichloroethane	0.0500	0.05464		mg/L		109	68 - 127
1,1-Dichloroethene	0.0500	0.05175		mg/L		104	59 - 172
1,2-Dichloropropane	0.0500	0.05242		mg/L		105	74 - 125
1,3-Dichloropropane	0.0500	0.05174		mg/L		103	75 - 125
2,2-Dichloropropane	0.0500	0.06417	*+	mg/L		128	75 - 125
1,1-Dichloropropene	0.0500	0.05235		mg/L		105	75 - 125
Ethylbenzene	0.0500	0.05404		mg/L		108	75 - 125
Hexachlorobutadiene	0.0500	0.06479	*+	mg/L		130	75 - 125
Isopropylbenzene	0.0500	0.05674		mg/L		113	75 - 125
Methylene Chloride	0.0500	0.04870		mg/L		97	75 - 125
m,p-Xylenes	0.0500	0.05484		mg/L		110	75 - 125
MTBE	0.0500	0.05163		mg/L		103	65 - 135
Naphthalene	0.0500	0.05099		mg/L		102	70 - 130
n-Butylbenzene	0.0500	0.05944		mg/L		119	75 - 125
N-Propylbenzene	0.0500	0.05443		mg/L		109	75 - 125
o-Xylene	0.0500	0.05522		mg/L		110	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05790		mg/L		116	75 - 125
sec-Butylbenzene	0.0500	0.05692		mg/L		114	75 - 125
Styrene	0.0500	0.05548		mg/L		111	75 - 125
tert-Butylbenzene	0.0500	0.05680		mg/L		114	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05578		mg/L		112	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05048		mg/L		101	74 - 125
Tetrachloroethene	0.0500	0.05556		mg/L		111	71 - 125
Toluene	0.0500	0.05190		mg/L		104	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05204		mg/L		104	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05084		mg/L		102	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05717		mg/L		114	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05495		mg/L		110	75 - 135
1,1,1-Trichloroethane	0.0500	0.05352		mg/L		107	75 - 125
1,1,2-Trichloroethane	0.0500	0.05143		mg/L		103	75 - 127
Trichloroethene	0.0500	0.05448		mg/L		109	62 - 137
Trichlorofluoromethane	0.0500	0.05299		mg/L		106	60 - 140
1,2,3-Trichloropropane	0.0500	0.05192		mg/L		104	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05643		mg/L		113	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05500		mg/L		110	60 - 140
Vinyl chloride	0.0500	0.04037		mg/L		81	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-16251-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-58362/4

Matrix: Water

Analysis Batch: 58362

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	0.04917		mg/L		98	66 - 142	3	25
Bromobenzene	0.0500	0.05239		mg/L		105	75 - 125	3	25
Bromochloromethane	0.0500	0.04885		mg/L		98	60 - 140	2	25
Bromodichloromethane	0.0500	0.05471		mg/L		109	75 - 125	3	25
Bromoform	0.0500	0.05417		mg/L		108	75 - 125	1	25
Bromomethane	0.0500	0.04506		mg/L		90	60 - 140	4	25
2-Butanone	0.250	0.2216		mg/L		89	60 - 140	4	25
Carbon tetrachloride	0.0500	0.05331		mg/L		107	62 - 125	9	25
Chlorobenzene	0.0500	0.05095		mg/L		102	60 - 133	1	25
Chloroethane	0.0500	0.04214		mg/L		84	60 - 140	7	25
Chloroform	0.0500	0.05057		mg/L		101	70 - 130	4	25
Chloromethane	0.0500	0.03697		mg/L		74	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05211		mg/L		104	73 - 125	4	25
4-Chlorotoluene	0.0500	0.05273		mg/L		105	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.05029		mg/L		101	75 - 125	4	25
cis-1,3-Dichloropropene	0.0500	0.04940		mg/L		99	74 - 125	2	25
Dibromochloromethane	0.0500	0.05132		mg/L		103	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05179		mg/L		104	59 - 125	8	25
1,2-Dibromoethane	0.0500	0.05478		mg/L		110	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05308		mg/L		106	75 - 125	0	25
1,3-Dichlorobenzene	0.0500	0.05283		mg/L		106	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.05045		mg/L		101	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04199		mg/L		84	70 - 130	5	25
1,1-Dichloroethane	0.0500	0.04794		mg/L		96	72 - 125	4	25
1,2-Dichloroethane	0.0500	0.05456		mg/L		109	68 - 127	0	25
1,1-Dichloroethene	0.0500	0.04704		mg/L		94	59 - 172	10	25
1,2-Dichloropropane	0.0500	0.05179		mg/L		104	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.05136		mg/L		103	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.06062		mg/L		121	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.05146		mg/L		103	75 - 125	2	25
Ethylbenzene	0.0500	0.05301		mg/L		106	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.06443	*+	mg/L		129	75 - 125	1	25
Isopropylbenzene	0.0500	0.05525		mg/L		111	75 - 125	3	25
Methylene Chloride	0.0500	0.04645		mg/L		93	75 - 125	5	25
m,p-Xylenes	0.0500	0.05366		mg/L		107	75 - 125	2	25
MTBE	0.0500	0.05309		mg/L		106	65 - 135	3	25
Naphthalene	0.0500	0.05909		mg/L		118	70 - 130	15	25
n-Butylbenzene	0.0500	0.05732		mg/L		115	75 - 125	4	25
N-Propylbenzene	0.0500	0.05241		mg/L		105	75 - 125	4	25
o-Xylene	0.0500	0.05406		mg/L		108	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05649		mg/L		113	75 - 125	2	25
sec-Butylbenzene	0.0500	0.05498		mg/L		110	75 - 125	3	25
Styrene	0.0500	0.05461		mg/L		109	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05422		mg/L		108	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.05439		mg/L		109	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.05312		mg/L		106	74 - 125	5	25
Tetrachloroethene	0.0500	0.05336		mg/L		107	71 - 125	4	25
Toluene	0.0500	0.05143		mg/L		103	59 - 139	1	25

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QC Sample Results

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

Job ID: 880-16251-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-58362/4

Matrix: Water

Analysis Batch: 58362

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	0.04771		mg/L		95	75 - 125	9	25
trans-1,3-Dichloropropene	0.0500	0.04975		mg/L		100	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.06739		mg/L		135	75 - 137	16	25
1,2,4-Trichlorobenzene	0.0500	0.05868		mg/L		117	75 - 135	7	25
1,1,1-Trichloroethane	0.0500	0.05046		mg/L		101	75 - 125	6	25
1,1,2-Trichloroethane	0.0500	0.05288		mg/L		106	75 - 127	3	25
Trichloroethene	0.0500	0.05155		mg/L		103	62 - 137	6	25
Trichlorofluoromethane	0.0500	0.04868		mg/L		97	60 - 140	8	25
1,2,3-Trichloropropane	0.0500	0.05144		mg/L		103	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.05476		mg/L		110	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05342		mg/L		107	60 - 140	3	25
Vinyl chloride	0.0500	0.03792		mg/L		76	60 - 140	6	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-58322/3

Matrix: Water

Analysis Batch: 58322

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			06/24/22 07:44	1
Chloride	<0.200	U	0.500	0.200 mg/L			06/24/22 07:44	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/24/22 07:44	1
Sulfate	<0.109	U	0.500	0.109 mg/L			06/24/22 07:44	1

Lab Sample ID: LCS 860-58322/6

Matrix: Water

Analysis Batch: 58322

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	9.575		mg/L		96	90 - 110
Chloride	10.0	9.576		mg/L		96	90 - 110
Fluoride	10.0	10.31		mg/L		103	90 - 110
Sulfate	10.0	9.590		mg/L		96	90 - 110

Lab Sample ID: LCSD 860-58322/7

Matrix: Water

Analysis Batch: 58322

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	9.571		mg/L		96	90 - 110	0	20
Chloride	10.0	9.552		mg/L		96	90 - 110	0	20
Fluoride	10.0	10.32		mg/L		103	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-16251-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-58322/7

Matrix: Water

Analysis Batch: 58322

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	9.585		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-58322/5

Matrix: Water

Analysis Batch: 58322

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	0.4375	J	mg/L		87	50 - 150		
Chloride	0.500	0.5169		mg/L		103	50 - 150		
Fluoride	0.500	0.3908	J	mg/L		78	50 - 150		
Sulfate	0.500	0.4793	J	mg/L		96	50 - 150		

Lab Sample ID: MB 860-58323/3

Matrix: Water

Analysis Batch: 58323

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			06/24/22 07:44	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/24/22 07:44	1

Lab Sample ID: LCS 860-58323/6

Matrix: Water

Analysis Batch: 58323

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	9.832		mg/L		98	80 - 120		
Nitrite as N	5.00	4.973		mg/L		99	80 - 120		

Lab Sample ID: LCSD 860-58323/7

Matrix: Water

Analysis Batch: 58323

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	9.858		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	5.007		mg/L		100	80 - 120	1	20

Lab Sample ID: LLCS 860-58323/4

Matrix: Water

Analysis Batch: 58323

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	0.1141		mg/L		114	50 - 150		
Nitrite as N	0.100	0.08866	J	mg/L		89	50 - 150		

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QC Sample Results

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

Job ID: 880-16251-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-58687/1-A

Matrix: Water

Analysis Batch: 58847

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 58687

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		06/27/22 12:30	06/28/22 00:55	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		06/27/22 12:30	06/28/22 00:55	1
Potassium	<0.107	U	0.500	0.107 mg/L		06/27/22 12:30	06/28/22 00:55	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		06/27/22 12:30	06/28/22 00:55	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		06/27/22 12:30	06/28/22 00:55	1

Lab Sample ID: LCS 860-58687/2-A

Matrix: Water

Analysis Batch: 58847

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 58687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	27.64		mg/L		111	85 - 115
Magnesium	25.0	27.43		mg/L		110	85 - 115
Potassium	10.0	11.37		mg/L		114	85 - 115
Sodium	25.0	27.65		mg/L		111	85 - 115
SiO2	21.4	23.58		mg/L		110	85 - 115

Lab Sample ID: LCSD 860-58687/3-A

Matrix: Water

Analysis Batch: 58847

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 58687

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	27.70		mg/L		111	85 - 115	0	20
Magnesium	25.0	27.53		mg/L		110	85 - 115	0	20
Potassium	10.0	11.42		mg/L		114	85 - 115	0	20
Sodium	25.0	27.67		mg/L		111	85 - 115	0	20
SiO2	21.4	23.73		mg/L		111	85 - 115	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-58651/3

Matrix: Water

Analysis Batch: 58651

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			06/25/22 10:30	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/25/22 10:30	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/25/22 10:30	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			06/25/22 10:30	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			06/25/22 10:30	1

Lab Sample ID: LCS 860-58651/4

Matrix: Water

Analysis Batch: 58651

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	269.3		mg/L		108	85 - 115

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QC Sample Results

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

Job ID: 880-16251-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-58651/5
Matrix: Water
Analysis Batch: 58651

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	270.4		mg/L		108	85 - 115	0	20

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

Lab Sample ID: MB 860-58720/1
Matrix: Water
Analysis Batch: 58720

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			06/27/22 14:42	1

Lab Sample ID: LCS 860-58720/2
Matrix: Water
Analysis Batch: 58720

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	937.0		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-58720/3
Matrix: Water
Analysis Batch: 58720

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	950.0		mg/L		95	80 - 120	1	10

QC Association Summary

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

Job ID: 880-16251-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 58362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16251-1	Levey Well	Total/NA	Water	8260C	
MB 860-58362/9	Method Blank	Total/NA	Water	8260C	
LCS 860-58362/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-58362/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 58322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16251-1	Levey Well	Total/NA	Water	300.0	
MB 860-58322/3	Method Blank	Total/NA	Water	300.0	
LCS 860-58322/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-58322/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-58322/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 58323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16251-1	Levey Well	Total/NA	Water	300.0	
MB 860-58323/3	Method Blank	Total/NA	Water	300.0	
LCS 860-58323/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-58323/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-58323/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 58687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16251-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-58687/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-58687/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-58687/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	

Analysis Batch: 58847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16251-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	58687
880-16251-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	58687
MB 860-58687/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	58687
LCS 860-58687/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	58687
LCSD 860-58687/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	58687

General Chemistry

Analysis Batch: 58513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16251-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 58651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16251-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-58651/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-58651/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-58651/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Eurofins Midland

QC Association Summary

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

Job ID: 880-16251-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 58720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16251-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-58720/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-58720/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-58720/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 59361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16251-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-16251-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 06/23/22 10:20
Date Received: 06/23/22 15:24

Lab Sample ID: 880-16251-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	58362	06/24/22 17:37	AN	XEN STF
Total/NA	Analysis	300.0		1	58322	06/24/22 19:24	ANP	XEN STF
Total/NA	Analysis	300.0		1	58323	06/24/22 19:24	ANP	XEN STF
Total Recoverable	Prep	200.7			58687	06/27/22 12:30	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	58847	06/28/22 01:39	AV	XEN STF
Total Recoverable	Prep	200.7			58687	06/27/22 12:30	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	58847	06/28/22 03:02	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	59361	06/30/22 17:22	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	58651	06/25/22 11:32	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	58720	06/27/22 14:42	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	58513	06/24/22 17:37	TL	XEN STF

Laboratory References:
XEN STF = 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: 880-16251-1
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	T104704215-22-46	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
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: 880-16251-1
SDG: Hobbs NM

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

Protocol References:

- EPA = US Environmental Protection Agency
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- 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:

- XEN STF = 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: 880-16251-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16251-1	Levey Well	Water	06/23/22 10:20	06/23/22 15:24

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



Chain of Custody

Work Order No: 1625

Houston TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 508-3334
Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa, FL (813) 251-1111
Hobbs, NM (575-392-7550)

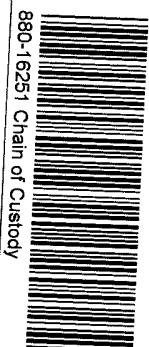
Page 1 of 1
www.xenco.com

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #240	Address:	
City, State ZIP:	Midland TX	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:	Levey Well	Hobbs NM	Turn Around
Project Number:	03B1417001		Routine ☐
P.O. Number:	03B1417001		Rush 24 Hr
Sampler's Name:	Shane Diller		Due Date

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):		47.8					
Received intact:		Yes	No				
Cooler Custody Seals:		Yes	No	N/A			
Sample Custody Seals:		Yes	No	N/A			
					Correction Factor:		-2
					Total Containers:		

[illegible][illegible][illegible]

06U-16251 Chain of Custody

[illegible]

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	04/03/22	2		
3 <i>[Signature]</i>		18.24	4		
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-16251-1

SDG Number: Hobbs NM

Login Number: 16251

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: 880-16251-1

SDG Number: Hobbs NM

Login Number: 16251

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 06/24/22 02:41 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 America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16250-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Authorized for release by:

6/30/2022 7:52:59 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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results through



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www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-16250-1

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Definitions/Glossary

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

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

Glossary

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

Eurofins Midland

Case Narrative

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

Job ID: 880-16250-1

Job ID: 880-16250-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-16250-1****Receipt**

The samples were received on 6/23/2022 3:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-58362 recovered outside control limits for the following analytes: 2,2-Dichloropropane and Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-58362 recovered outside control limits for the following analytes: Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The matrix spike(MS) recoveries for analytical batch 860-58362 were outside control limits. Sample matrix interference is suspected.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-2 (880-16250-2). Note: pH 3.

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 860-58322 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16250-1

Date Collected: 06/23/22 11:20

Matrix: Water

Date Received: 06/23/22 15:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/24/22 16:40	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/24/22 16:40	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/24/22 16:40	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/24/22 16:40	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/24/22 16:40	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/24/22 16:40	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/24/22 16:40	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/24/22 16:40	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/24/22 16:40	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/24/22 16:40	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/24/22 16:40	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/24/22 16:40	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/24/22 16:40	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/24/22 16:40	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/24/22 16:40	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/24/22 16:40	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/24/22 16:40	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/24/22 16:40	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/24/22 16:40	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/24/22 16:40	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/24/22 16:40	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/24/22 16:40	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/24/22 16:40	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/24/22 16:40	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/24/22 16:40	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/24/22 16:40	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/24/22 16:40	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/24/22 16:40	1
2,2-Dichloropropane	<0.000360	U **	0.00500	0.000360 mg/L			06/24/22 16:40	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/24/22 16:40	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/24/22 16:40	1
Hexachlorobutadiene	<0.00200	U **	0.00500	0.00200 mg/L			06/24/22 16:40	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/24/22 16:40	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/24/22 16:40	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/24/22 16:40	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/24/22 16:40	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/24/22 16:40	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/24/22 16:40	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/24/22 16:40	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/24/22 16:40	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/24/22 16:40	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/24/22 16:40	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/24/22 16:40	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/24/22 16:40	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/24/22 16:40	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/24/22 16:40	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/24/22 16:40	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/24/22 16:40	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			06/24/22 16:40	1

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Client Sample Results

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16250-1

Date Collected: 06/23/22 11:20

Matrix: Water

Date Received: 06/23/22 15:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/24/22 16:40	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/24/22 16:40	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/24/22 16:40	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/24/22 16:40	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/24/22 16:40	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/24/22 16:40	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/24/22 16:40	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/24/22 16:40	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			06/24/22 16:40	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			06/24/22 16:40	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/24/22 16:40	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			06/24/22 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		06/24/22 16:40	1
Dibromofluoromethane (Surr)	99		75 - 131		06/24/22 16:40	1
1,2-Dichloroethane-d4 (Surr)	113		63 - 144		06/24/22 16:40	1
Toluene-d8 (Surr)	97		80 - 117		06/24/22 16:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.932	U	4.72	0.932 mg/L			06/27/22 18:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.932	U	4.72	0.932 mg/L		06/24/22 16:51	06/24/22 19:36	1
Diesel Range Organics (Over C10-C28)	<0.932	U	4.72	0.932 mg/L		06/24/22 16:51	06/24/22 19:36	1
Oil Range Organics (Over C28-C36)	<0.900	U	4.72	0.900 mg/L		06/24/22 16:51	06/24/22 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 135			06/24/22 16:51	06/24/22 19:36	1
o-Terphenyl	100		70 - 135			06/24/22 16:51	06/24/22 19:36	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.9		0.500	0.200 mg/L			06/24/22 18:20	1
Nitrate as N	0.238		0.100	0.0391 mg/L			06/24/22 18:20	1
Fluoride	0.616		0.500	0.100 mg/L			06/24/22 18:20	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/24/22 18:20	1
Sulfate	47.7		0.500	0.109 mg/L			06/24/22 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	258		4.00	4.00 mg/L			06/25/22 10:58	1
Bicarbonate Alkalinity as CaCO3	258		4.00	4.00 mg/L			06/25/22 10:58	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/25/22 10:58	1
Carbon dioxide	260			mg/L			06/28/22 16:59	1
Carbon Dioxide, Free	32.5			mg/L			06/28/22 16:59	1
pH	7.2	HF		SU			06/24/22 17:33	1

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Client Sample Results

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16250-1

Date Collected: 06/23/22 11:20

Matrix: Water

Date Received: 06/23/22 15:24

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	18.0	HF		Degrees C			06/24/22 17:33	1
Sulfide	0.800	J	5.00	0.495 mg/L			06/29/22 10:00	1

Client Sample ID: MW-2

Lab Sample ID: 880-16250-2

Date Collected: 06/23/22 12:30

Matrix: Water

Date Received: 06/23/22 15:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0235		0.00100	0.000214 mg/L			06/24/22 16:59	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/24/22 16:59	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/24/22 16:59	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/24/22 16:59	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/24/22 16:59	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/24/22 16:59	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/24/22 16:59	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/24/22 16:59	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/24/22 16:59	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/24/22 16:59	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/24/22 16:59	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/24/22 16:59	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/24/22 16:59	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/24/22 16:59	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/24/22 16:59	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/24/22 16:59	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/24/22 16:59	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/24/22 16:59	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/24/22 16:59	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/24/22 16:59	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/24/22 16:59	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/24/22 16:59	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/24/22 16:59	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/24/22 16:59	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/24/22 16:59	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/24/22 16:59	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/24/22 16:59	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/24/22 16:59	1
2,2-Dichloropropane	<0.000360	U *	0.00500	0.000360 mg/L			06/24/22 16:59	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/24/22 16:59	1
Ethylbenzene	0.0311		0.00100	0.000515 mg/L			06/24/22 16:59	1
Hexachlorobutadiene	<0.00200	U *	0.00500	0.00200 mg/L			06/24/22 16:59	1
Isopropylbenzene	0.0144		0.00100	0.000161 mg/L			06/24/22 16:59	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/24/22 16:59	1
m,p-Xylenes	0.139		0.0100	0.000330 mg/L			06/24/22 16:59	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/24/22 16:59	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/24/22 16:59	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/24/22 16:59	1
N-Propylbenzene	0.00410		0.00100	0.000179 mg/L			06/24/22 16:59	1
o-Xylene	0.0139		0.00100	0.000192 mg/L			06/24/22 16:59	1
p-Cymene (p-Isopropyltoluene)	0.00120		0.00100	0.000233 mg/L			06/24/22 16:59	1

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Client Sample Results

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

Job ID: 880-16250-1

Client Sample ID: MW-2

Lab Sample ID: 880-16250-2

Date Collected: 06/23/22 12:30

Matrix: Water

Date Received: 06/23/22 15:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/24/22 16:59	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/24/22 16:59	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/24/22 16:59	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/24/22 16:59	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/24/22 16:59	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/24/22 16:59	1
Toluene	0.00355		0.00100	0.000500 mg/L			06/24/22 16:59	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			06/24/22 16:59	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/24/22 16:59	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/24/22 16:59	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/24/22 16:59	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/24/22 16:59	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/24/22 16:59	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/24/22 16:59	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/24/22 16:59	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/24/22 16:59	1
1,2,4-Trimethylbenzene	0.0464		0.00100	0.000252 mg/L			06/24/22 16:59	1
1,3,5-Trimethylbenzene	0.0121		0.00100	0.000279 mg/L			06/24/22 16:59	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/24/22 16:59	1
Xylenes, Total	0.153		0.0100	0.000330 mg/L			06/24/22 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		74 - 124		06/24/22 16:59	1
4-Bromofluorobenzene (Surr)	99		74 - 124		06/24/22 17:18	5
Dibromofluoromethane (Surr)	99		75 - 131		06/24/22 16:59	1
Dibromofluoromethane (Surr)	100		75 - 131		06/24/22 17:18	5
1,2-Dichloroethane-d4 (Surr)	112		63 - 144		06/24/22 16:59	1
1,2-Dichloroethane-d4 (Surr)	112		63 - 144		06/24/22 17:18	5
Toluene-d8 (Surr)	96		80 - 117		06/24/22 16:59	1
Toluene-d8 (Surr)	98		80 - 117		06/24/22 17:18	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.25	J	4.66	0.920 mg/L			06/27/22 18:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.25	J	4.66	0.920 mg/L		06/24/22 16:51	06/24/22 19:56	1
Diesel Range Organics (Over C10-C28)	<0.920	U	4.66	0.920 mg/L		06/24/22 16:51	06/24/22 19:56	1
Oil Range Organics (Over C28-C36)	<0.888	U	4.66	0.888 mg/L		06/24/22 16:51	06/24/22 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 135	06/24/22 16:51	06/24/22 19:56	1
o-Terphenyl	95		70 - 135	06/24/22 16:51	06/24/22 19:56	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		0.500	0.200 mg/L			06/24/22 18:33	1
Nitrate as N	0.494		0.100	0.0391 mg/L			06/24/22 18:33	1

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Client Sample Results

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

Job ID: 880-16250-1

Client Sample ID: MW-2
Date Collected: 06/23/22 12:30
Date Received: 06/23/22 15:24

Lab Sample ID: 880-16250-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.100	U	0.500	0.100	mg/L			06/24/22 18:33	1
Nitrite as N	5.21		1.00	0.293	mg/L			06/24/22 18:46	10
Sulfate	107		0.500	0.109	mg/L			06/24/22 18:33	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1270		4.00	4.00	mg/L			06/25/22 11:22	1
Bicarbonate Alkalinity as CaCO3	1270		4.00	4.00	mg/L			06/25/22 11:22	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			06/25/22 11:22	1
Carbon dioxide	2390				mg/L			06/28/22 16:59	1
Carbon Dioxide, Free	1270				mg/L			06/28/22 16:59	1
pH	6.3	HF			SU			06/24/22 17:36	1
Temperature	18.0	HF			Degrees C			06/24/22 17:36	1
Sulfide	<0.495	U	5.00	0.495	mg/L			06/29/22 10:00	1

Surrogate Summary

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

Job ID: 880-16250-1

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
860-28263-B-6 MS	Matrix Spike	99	97	97	99
880-16250-1	MW-1	99	99	113	97
880-16250-2	MW-2	94	99	112	96
880-16250-2	MW-2	99	100	112	98
LCS 860-58362/3	Lab Control Sample	100	98	100	99
LCSD 860-58362/4	Lab Control Sample Dup	100	99	98	99
MB 860-58362/9	Method Blank	99	98	103	98
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-135)	(70-135)
880-16250-1	MW-1	88	100
880-16250-2	MW-2	82	95
LCS 860-58498/2-A	Lab Control Sample	104	93
LCSD 860-58498/3-A	Lab Control Sample Dup	103	91
MB 860-58498/1-A	Method Blank	82	93
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-58362/9

Matrix: Water

Analysis Batch: 58362

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/24/22 15:05	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/24/22 15:05	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/24/22 15:05	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/24/22 15:05	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/24/22 15:05	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/24/22 15:05	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/24/22 15:05	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/24/22 15:05	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/24/22 15:05	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/24/22 15:05	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/24/22 15:05	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/24/22 15:05	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/24/22 15:05	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/24/22 15:05	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/24/22 15:05	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/24/22 15:05	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/24/22 15:05	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/24/22 15:05	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/24/22 15:05	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/24/22 15:05	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/24/22 15:05	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/24/22 15:05	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/24/22 15:05	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/24/22 15:05	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/24/22 15:05	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/24/22 15:05	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/24/22 15:05	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/24/22 15:05	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/24/22 15:05	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/24/22 15:05	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/24/22 15:05	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/24/22 15:05	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/24/22 15:05	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/24/22 15:05	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/24/22 15:05	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/24/22 15:05	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/24/22 15:05	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/24/22 15:05	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/24/22 15:05	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/24/22 15:05	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/24/22 15:05	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/24/22 15:05	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/24/22 15:05	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/24/22 15:05	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/24/22 15:05	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/24/22 15:05	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/24/22 15:05	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/24/22 15:05	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-58362/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 58362

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			06/24/22 15:05	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			06/24/22 15:05	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/24/22 15:05	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			06/24/22 15:05	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			06/24/22 15:05	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			06/24/22 15:05	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			06/24/22 15:05	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			06/24/22 15:05	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			06/24/22 15:05	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			06/24/22 15:05	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			06/24/22 15:05	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			06/24/22 15:05	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			06/24/22 15:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		06/24/22 15:05	1
Dibromofluoromethane (Surr)	98		75 - 131		06/24/22 15:05	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		06/24/22 15:05	1
Toluene-d8 (Surr)	98		80 - 117		06/24/22 15:05	1

Lab Sample ID: LCS 860-58362/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 58362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05048		mg/L		101	66 - 142
Bromobenzene	0.0500	0.05380		mg/L		108	75 - 125
Bromochloromethane	0.0500	0.04968		mg/L		99	60 - 140
Bromodichloromethane	0.0500	0.05650		mg/L		113	75 - 125
Bromoform	0.0500	0.05340		mg/L		107	75 - 125
Bromomethane	0.0500	0.04675		mg/L		94	60 - 140
2-Butanone	0.250	0.2138		mg/L		86	60 - 140
Carbon tetrachloride	0.0500	0.05861		mg/L		117	62 - 125
Chlorobenzene	0.0500	0.05163		mg/L		103	60 - 133
Chloroethane	0.0500	0.03940		mg/L		79	60 - 140
Chloroform	0.0500	0.05241		mg/L		105	70 - 130
Chloromethane	0.0500	0.03933		mg/L		79	60 - 140
2-Chlorotoluene	0.0500	0.05443		mg/L		109	73 - 125
4-Chlorotoluene	0.0500	0.05488		mg/L		110	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05258		mg/L		105	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05051		mg/L		101	74 - 125
Dibromochloromethane	0.0500	0.05114		mg/L		102	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04780		mg/L		96	59 - 125
1,2-Dibromoethane	0.0500	0.05447		mg/L		109	73 - 125
1,2-Dichlorobenzene	0.0500	0.05318		mg/L		106	75 - 125
1,3-Dichlorobenzene	0.0500	0.05376		mg/L		108	75 - 125
1,4-Dichlorobenzene	0.0500	0.05108		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.04435		mg/L		89	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-58362/3

Matrix: Water

Analysis Batch: 58362

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	0.04992		mg/L		100	72 - 125
1,2-Dichloroethane	0.0500	0.05464		mg/L		109	68 - 127
1,1-Dichloroethene	0.0500	0.05175		mg/L		104	59 - 172
1,2-Dichloropropane	0.0500	0.05242		mg/L		105	74 - 125
1,3-Dichloropropane	0.0500	0.05174		mg/L		103	75 - 125
2,2-Dichloropropane	0.0500	0.06417	*+	mg/L		128	75 - 125
1,1-Dichloropropene	0.0500	0.05235		mg/L		105	75 - 125
Ethylbenzene	0.0500	0.05404		mg/L		108	75 - 125
Hexachlorobutadiene	0.0500	0.06479	*+	mg/L		130	75 - 125
Isopropylbenzene	0.0500	0.05674		mg/L		113	75 - 125
Methylene Chloride	0.0500	0.04870		mg/L		97	75 - 125
m,p-Xylenes	0.0500	0.05484		mg/L		110	75 - 125
MTBE	0.0500	0.05163		mg/L		103	65 - 135
Naphthalene	0.0500	0.05099		mg/L		102	70 - 130
n-Butylbenzene	0.0500	0.05944		mg/L		119	75 - 125
N-Propylbenzene	0.0500	0.05443		mg/L		109	75 - 125
o-Xylene	0.0500	0.05522		mg/L		110	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05790		mg/L		116	75 - 125
sec-Butylbenzene	0.0500	0.05692		mg/L		114	75 - 125
Styrene	0.0500	0.05548		mg/L		111	75 - 125
tert-Butylbenzene	0.0500	0.05680		mg/L		114	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05578		mg/L		112	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05048		mg/L		101	74 - 125
Tetrachloroethene	0.0500	0.05556		mg/L		111	71 - 125
Toluene	0.0500	0.05190		mg/L		104	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05204		mg/L		104	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05084		mg/L		102	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05717		mg/L		114	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05495		mg/L		110	75 - 135
1,1,1-Trichloroethane	0.0500	0.05352		mg/L		107	75 - 125
1,1,2-Trichloroethane	0.0500	0.05143		mg/L		103	75 - 127
Trichloroethene	0.0500	0.05448		mg/L		109	62 - 137
Trichlorofluoromethane	0.0500	0.05299		mg/L		106	60 - 140
1,2,3-Trichloropropane	0.0500	0.05192		mg/L		104	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05643		mg/L		113	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05500		mg/L		110	60 - 140
Vinyl chloride	0.0500	0.04037		mg/L		81	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-58362/4

Matrix: Water

Analysis Batch: 58362

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	0.04917		mg/L		98	66 - 142	3	25
Bromobenzene	0.0500	0.05239		mg/L		105	75 - 125	3	25
Bromochloromethane	0.0500	0.04885		mg/L		98	60 - 140	2	25
Bromodichloromethane	0.0500	0.05471		mg/L		109	75 - 125	3	25
Bromoform	0.0500	0.05417		mg/L		108	75 - 125	1	25
Bromomethane	0.0500	0.04506		mg/L		90	60 - 140	4	25
2-Butanone	0.250	0.2216		mg/L		89	60 - 140	4	25
Carbon tetrachloride	0.0500	0.05331		mg/L		107	62 - 125	9	25
Chlorobenzene	0.0500	0.05095		mg/L		102	60 - 133	1	25
Chloroethane	0.0500	0.04214		mg/L		84	60 - 140	7	25
Chloroform	0.0500	0.05057		mg/L		101	70 - 130	4	25
Chloromethane	0.0500	0.03697		mg/L		74	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05211		mg/L		104	73 - 125	4	25
4-Chlorotoluene	0.0500	0.05273		mg/L		105	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.05029		mg/L		101	75 - 125	4	25
cis-1,3-Dichloropropene	0.0500	0.04940		mg/L		99	74 - 125	2	25
Dibromochloromethane	0.0500	0.05132		mg/L		103	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05179		mg/L		104	59 - 125	8	25
1,2-Dibromoethane	0.0500	0.05478		mg/L		110	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05308		mg/L		106	75 - 125	0	25
1,3-Dichlorobenzene	0.0500	0.05283		mg/L		106	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.05045		mg/L		101	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04199		mg/L		84	70 - 130	5	25
1,1-Dichloroethane	0.0500	0.04794		mg/L		96	72 - 125	4	25
1,2-Dichloroethane	0.0500	0.05456		mg/L		109	68 - 127	0	25
1,1-Dichloroethene	0.0500	0.04704		mg/L		94	59 - 172	10	25
1,2-Dichloropropane	0.0500	0.05179		mg/L		104	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.05136		mg/L		103	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.06062		mg/L		121	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.05146		mg/L		103	75 - 125	2	25
Ethylbenzene	0.0500	0.05301		mg/L		106	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.06443	*+	mg/L		129	75 - 125	1	25
Isopropylbenzene	0.0500	0.05525		mg/L		111	75 - 125	3	25
Methylene Chloride	0.0500	0.04645		mg/L		93	75 - 125	5	25
m,p-Xylenes	0.0500	0.05366		mg/L		107	75 - 125	2	25
MTBE	0.0500	0.05309		mg/L		106	65 - 135	3	25
Naphthalene	0.0500	0.05909		mg/L		118	70 - 130	15	25
n-Butylbenzene	0.0500	0.05732		mg/L		115	75 - 125	4	25
N-Propylbenzene	0.0500	0.05241		mg/L		105	75 - 125	4	25
o-Xylene	0.0500	0.05406		mg/L		108	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05649		mg/L		113	75 - 125	2	25
sec-Butylbenzene	0.0500	0.05498		mg/L		110	75 - 125	3	25
Styrene	0.0500	0.05461		mg/L		109	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05422		mg/L		108	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.05439		mg/L		109	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.05312		mg/L		106	74 - 125	5	25
Tetrachloroethene	0.0500	0.05336		mg/L		107	71 - 125	4	25
Toluene	0.0500	0.05143		mg/L		103	59 - 139	1	25

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QC Sample Results

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-58362/4

Matrix: Water

Analysis Batch: 58362

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	0.04771		mg/L		95	75 - 125	9	25
trans-1,3-Dichloropropene	0.0500	0.04975		mg/L		100	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.06739		mg/L		135	75 - 137	16	25
1,2,4-Trichlorobenzene	0.0500	0.05868		mg/L		117	75 - 135	7	25
1,1,1-Trichloroethane	0.0500	0.05046		mg/L		101	75 - 125	6	25
1,1,2-Trichloroethane	0.0500	0.05288		mg/L		106	75 - 127	3	25
Trichloroethene	0.0500	0.05155		mg/L		103	62 - 137	6	25
Trichlorofluoromethane	0.0500	0.04868		mg/L		97	60 - 140	8	25
1,2,3-Trichloropropane	0.0500	0.05144		mg/L		103	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.05476		mg/L		110	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05342		mg/L		107	60 - 140	3	25
Vinyl chloride	0.0500	0.03792		mg/L		76	60 - 140	6	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
Toluene-d8 (Surr)	99		80 - 117

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

Lab Sample ID: MB 860-58498/1-A

Matrix: Water

Analysis Batch: 58385

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58498

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		06/24/22 16:51	06/24/22 19:17	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		06/24/22 16:51	06/24/22 19:17	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		06/24/22 16:51	06/24/22 19:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 135	06/24/22 16:51	06/24/22 19:17	1
o-Terphenyl	93		70 - 135	06/24/22 16:51	06/24/22 19:17	1

Lab Sample ID: LCS 860-58498/2-A

Matrix: Water

Analysis Batch: 58385

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.9	109.7		mg/L		110	70 - 135
Diesel Range Organics (Over C10-C28)	99.8	100.6		mg/L		101	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	104		70 - 135
o-Terphenyl	93		70 - 135

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-58498/3-A

Matrix: Water

Analysis Batch: 58385

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58498

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.9	110.6		mg/L		111	70 - 135	1	35
Diesel Range Organics (Over C10-C28)	99.8	98.04		mg/L		98	70 - 135	3	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	103		70 - 135						
o-Terphenyl	91		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-58322/3

Matrix: Water

Analysis Batch: 58322

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	mg/L			06/24/22 07:44	1
Fluoride	<0.100	U	0.500	mg/L			06/24/22 07:44	1
Sulfate	<0.109	U	0.500	mg/L			06/24/22 07:44	1

Lab Sample ID: LCS 860-58322/6

Matrix: Water

Analysis Batch: 58322

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	9.576		mg/L		96	90 - 110
Fluoride	10.0	10.31		mg/L		103	90 - 110
Sulfate	10.0	9.590		mg/L		96	90 - 110

Lab Sample ID: LCSD 860-58322/7

Matrix: Water

Analysis Batch: 58322

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	9.552		mg/L		96	90 - 110	0	20
Fluoride	10.0	10.32		mg/L		103	90 - 110	0	20
Sulfate	10.0	9.585		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-58322/5

Matrix: Water

Analysis Batch: 58322

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	0.5169		mg/L		103	50 - 150
Fluoride	0.500	0.3908	J	mg/L		78	50 - 150
Sulfate	0.500	0.4793	J	mg/L		96	50 - 150

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QC Sample Results

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-58323/3

Matrix: Water

Analysis Batch: 58323

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			06/24/22 07:44	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/24/22 07:44	1

Lab Sample ID: LCS 860-58323/6

Matrix: Water

Analysis Batch: 58323

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	9.832		mg/L		98	80 - 120
Nitrite as N	5.00	4.973		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-58323/7

Matrix: Water

Analysis Batch: 58323

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	9.858		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	5.007		mg/L		100	80 - 120	1	20

Lab Sample ID: LLCS 860-58323/4

Matrix: Water

Analysis Batch: 58323

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	0.1141		mg/L		114	50 - 150
Nitrite as N	0.100	0.08866	J	mg/L		89	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-58651/3

Matrix: Water

Analysis Batch: 58651

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			06/25/22 10:30	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/25/22 10:30	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			06/25/22 10:30	1

Lab Sample ID: LCS 860-58651/4

Matrix: Water

Analysis Batch: 58651

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	269.3		mg/L		108	85 - 115

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-58651/5

Matrix: Water

Analysis Batch: 58651

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	270.4		mg/L		108	85 - 115	0	20

Lab Sample ID: 880-16250-1 DU

Matrix: Water

Analysis Batch: 58651

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	258		238.0		mg/L		8	20
Bicarbonate Alkalinity as CaCO3	258		238.0		mg/L		8	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-16250-1 DU

Matrix: Water

Analysis Batch: 58513

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.2	HF	7.2		SU		0	20
Temperature	18.0	HF	17.8		Degrees C		1	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-59367/10

Matrix: Water

Analysis Batch: 59367

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			06/29/22 10:00	1

Lab Sample ID: LCS 860-59367/11

Matrix: Water

Analysis Batch: 59367

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 860-59367/12

Matrix: Water

Analysis Batch: 59367

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	46.40		mg/L		93	80 - 120	1	20

Lab Sample ID: 880-16250-1 MS

Matrix: Water

Analysis Batch: 59367

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	0.800	J	50.0	46.40		mg/L		91	80 - 120

Eurofins Midland

QC Sample Results

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

Job ID: 880-16250-1

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

Lab Sample ID: 880-16250-1 MSD							Client Sample ID: MW-1					
Matrix: Water							Prep Type: Total/NA					
Analysis Batch: 59367												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Sulfide	0.800	J	50.0	46.40		mg/L		91	80 - 120	0	20	

QC Association Summary

Client: Ensolum

Job ID: 880-16250-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 58362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16250-1	MW-1	Total/NA	Water	8260C	
880-16250-2	MW-2	Total/NA	Water	8260C	
880-16250-2	MW-2	Total/NA	Water	8260C	
MB 860-58362/9	Method Blank	Total/NA	Water	8260C	
LCS 860-58362/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-58362/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 55049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16250-1	MW-1	Total/NA	Water	8015 NM	
880-16250-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 58385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16250-1	MW-1	Total/NA	Water	8015B NM	58498
880-16250-2	MW-2	Total/NA	Water	8015B NM	58498
MB 860-58498/1-A	Method Blank	Total/NA	Water	8015B NM	58498
LCS 860-58498/2-A	Lab Control Sample	Total/NA	Water	8015B NM	58498
LCSD 860-58498/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	58498

Prep Batch: 58498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16250-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-16250-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-58498/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-58498/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-58498/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 58322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16250-1	MW-1	Total/NA	Water	300.0	
880-16250-2	MW-2	Total/NA	Water	300.0	
MB 860-58322/3	Method Blank	Total/NA	Water	300.0	
LCS 860-58322/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-58322/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-58322/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 58323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16250-1	MW-1	Total/NA	Water	300.0	
880-16250-2	MW-2	Total/NA	Water	300.0	
880-16250-2	MW-2	Total/NA	Water	300.0	
MB 860-58323/3	Method Blank	Total/NA	Water	300.0	
LCS 860-58323/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-58323/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-58323/4	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-16250-1

General Chemistry

Analysis Batch: 58513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16250-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-16250-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-16250-1 DU	MW-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 58651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16250-1	MW-1	Total/NA	Water	SM 2320B	
880-16250-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-58651/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-58651/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-58651/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-16250-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 58978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16250-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-16250-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 59367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16250-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-16250-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-59367/10	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-59367/11	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-59367/12	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-16250-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-16250-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-16250-1

Client Sample ID: MW-1

Lab Sample ID: 880-16250-1

Date Collected: 06/23/22 11:20

Matrix: Water

Date Received: 06/23/22 15:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	58362	06/24/22 16:40	AN	XEN STF
Total/NA	Analysis	8015 NM		1	55049	06/27/22 18:17	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			58498	06/24/22 16:51	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	58385	06/24/22 19:36	T1S	XEN STF
Total/NA	Analysis	300.0		1	58322	06/24/22 18:20	ANP	XEN STF
Total/NA	Analysis	300.0		1	58323	06/24/22 18:20	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	58651	06/25/22 10:58	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	58978	06/28/22 16:59	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	58513	06/24/22 17:33	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	59367	06/29/22 10:00	YGG	XEN STF

Client Sample ID: MW-2

Lab Sample ID: 880-16250-2

Date Collected: 06/23/22 12:30

Matrix: Water

Date Received: 06/23/22 15:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	58362	06/24/22 16:59	AN	XEN STF
Total/NA	Analysis	8260C		5	58362	06/24/22 17:18	AN	XEN STF
Total/NA	Analysis	8015 NM		1	55049	06/27/22 18:17	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			58498	06/24/22 16:51	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	58385	06/24/22 19:56	T1S	XEN STF
Total/NA	Analysis	300.0		1	58322	06/24/22 18:33	ANP	XEN STF
Total/NA	Analysis	300.0		1	58323	06/24/22 18:33	ANP	XEN STF
Total/NA	Analysis	300.0		10	58323	06/24/22 18:46	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	58651	06/25/22 11:22	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	58978	06/28/22 16:59	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	58513	06/24/22 17:36	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	59367	06/29/22 10:00	YGG	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-16250-1

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	T104704215-22-46	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	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: 880-16250-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
SM 4500 S2 F	Sulfide, Total	SM	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Aq Prep	Microextraction	SW846	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

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

Job ID: 880-16250-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16250-1	MW-1	Water	06/23/22 11:20	06/23/22 15:24
880-16250-2	MW-2	Water	06/23/22 12:30	06/23/22 15:24

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



Chain of Custody

Houston, TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio, TX (210) 509-3333
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 (813-291-1111)

W



880-16250 Chain of Custody

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	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	
Project Number:	03B1417002	Routine	☐
P.O. Number:	03B1417002	Rush 24 Hr	
Sampler's Name:	Shane Diller	Due Date	

SAMPLE RECEIPT					
Temperature (°C):	974.5	Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐
Received In tact:	Yes ☒ No ☐	Thermometer ID	TSP		
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:	- .2		
Sample Custody Seals:	Yes ☒ No ☐	Total Containers:			

ANALYSIS REQUEST								Work Order Notes
Number of Containers								TAT starts the day received by the lab if received by 4:30pm
Reduced Carbon Dioxide 4500 CO2 c								
Reduced Sulfide SW-846 #376.2								
SW-846 #8260								
A Method #8015								
EPA Method #846 300								
SW-846 Method 150.1								

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	Dissolved	Dissolved	VOC SW	TPH EP	Chloride	pH EPA	Sample Comments
MW-1	GW	6-23-22	1120	—	7	X	X	X	X	X	X	24 Hr
MW-2	GW	6-23-22	1230	—	7	X	X	X	X	X	X	
Wid 4 6-23-22  CUSTODY SEAL ENVIRONMENTAL SAMPLING SUPPLY www.essvial.com 800-233-8425												
Date: 6-23-22 Signature: <i>[Signature]</i>												



www.essvial.com 800-233-8436

CUSTODY SEAL

Signatur

Date: 6-23-22

Signature 

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

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
		10/23/22			
		15:24			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-16250-1

Login Number: 16250

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: 880-16250-1

Login Number: 16250

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 06/24/22 02:42 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 America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16444-1

Laboratory Sample Delivery Group: Hobbs NM

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

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

7/8/2022 4:08:37 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

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

Laboratory Job ID: 880-16444-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-16444-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-16444-1
SDG: Hobbs NM

Job ID: 880-16444-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-16444-1****Receipt**

The sample was received on 6/29/2022 2:53 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC/MS VOA

Method 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 860-59375 recovered outside control limits for the following analyte(s): Dichloro difluoromethane. Dichloro difluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 860-59375 exceeded control limits for the following analyte(s): Dichloro difluoromethane. Note that this analyte is a known poor performer when analyzed using this method.

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 860-59187 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-59188 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 200.7: Due to the high concentration of Sodium and Calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-59579 and analytical batch 860-60122 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 200.7: Due to the high concentration of Sodium, the matrix spike (MS) for preparation batch 860-59579 and analytical batch 860-60122 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: 880-16444-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-16444-1

Date Collected: 06/29/22 10:30

Matrix: Water

Date Received: 06/29/22 14:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00340		0.00100	0.000214	mg/L		07/01/22 04:59	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		07/01/22 04:59	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		07/01/22 04:59	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		07/01/22 04:59	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		07/01/22 04:59	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		07/01/22 04:59	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		07/01/22 04:59	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		07/01/22 04:59	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		07/01/22 04:59	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		07/01/22 04:59	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		07/01/22 04:59	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		07/01/22 04:59	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		07/01/22 04:59	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		07/01/22 04:59	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		07/01/22 04:59	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		07/01/22 04:59	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		07/01/22 04:59	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		07/01/22 04:59	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		07/01/22 04:59	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		07/01/22 04:59	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		07/01/22 04:59	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		07/01/22 04:59	1
Dichlorodifluoromethane	<0.000316	U *	0.00100	0.000316	mg/L		07/01/22 04:59	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		07/01/22 04:59	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		07/01/22 04:59	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		07/01/22 04:59	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		07/01/22 04:59	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		07/01/22 04:59	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		07/01/22 04:59	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		07/01/22 04:59	1
Ethylbenzene	0.0137		0.00100	0.000515	mg/L		07/01/22 04:59	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		07/01/22 04:59	1
Isopropylbenzene	0.00632		0.00100	0.000161	mg/L		07/01/22 04:59	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		07/01/22 04:59	1
m,p-Xylenes	0.0558		0.0100	0.000330	mg/L		07/01/22 04:59	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		07/01/22 04:59	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		07/01/22 04:59	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		07/01/22 04:59	1
N-Propylbenzene	0.00274		0.00100	0.000179	mg/L		07/01/22 04:59	1
o-Xylene	0.00879		0.00100	0.000192	mg/L		07/01/22 04:59	1
p-Cymene (p-Isopropyltoluene)	0.000651	J	0.00100	0.000233	mg/L		07/01/22 04:59	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L		07/01/22 04:59	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		07/01/22 04:59	1
tert-Butylbenzene	0.00122		0.00100	0.000195	mg/L		07/01/22 04:59	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		07/01/22 04:59	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		07/01/22 04:59	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		07/01/22 04:59	1
Toluene	0.0286		0.00100	0.000500	mg/L		07/01/22 04:59	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		07/01/22 04:59	1

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Client Sample Results

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

Job ID: 880-16444-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-16444-1

Date Collected: 06/29/22 10:30

Matrix: Water

Date Received: 06/29/22 14:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/01/22 04:59	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/01/22 04:59	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/01/22 04:59	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/01/22 04:59	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/01/22 04:59	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/01/22 04:59	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/01/22 04:59	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/01/22 04:59	1
1,2,4-Trimethylbenzene	0.0140		0.00100	0.000252 mg/L			07/01/22 04:59	1
1,3,5-Trimethylbenzene	0.00428		0.00100	0.000279 mg/L			07/01/22 04:59	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/01/22 04:59	1
Xylenes, Total	0.0646		0.0100	0.000330 mg/L			07/01/22 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		07/01/22 04:59	1
Dibromofluoromethane (Surr)	97		75 - 131		07/01/22 04:59	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		07/01/22 04:59	1
Toluene-d8 (Surr)	100		80 - 117		07/01/22 04:59	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.350	J	0.500	0.0711 mg/L			06/30/22 17:24	1
Nitrate as N	0.207		0.100	0.0391 mg/L			06/30/22 17:24	1
Chloride	213		0.500	0.200 mg/L			06/30/22 17:24	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/30/22 17:24	1
Fluoride	0.505		0.500	0.100 mg/L			06/30/22 17:24	1
Sulfate	44.4		0.500	0.109 mg/L			06/30/22 17:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	243		10.0	1.47 mg/L		07/02/22 10:28	07/07/22 11:52	50
Magnesium	49.9		0.200	0.0500 mg/L		07/02/22 10:28	07/07/22 11:41	1
Potassium	3.79		0.500	0.107 mg/L		07/02/22 10:28	07/07/22 11:41	1
Sodium	77.7		0.500	0.0667 mg/L		07/02/22 10:28	07/07/22 11:41	1
SiO2	66.1		1.07	0.0781 mg/L		07/02/22 10:28	07/07/22 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-6.92			%			07/05/22 17:25	1
Alkalinity	674		4.00	4.00 mg/L			07/05/22 16:19	1
Bicarbonate Alkalinity as CaCO3	674		4.00	4.00 mg/L			07/05/22 16:19	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/05/22 16:19	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/05/22 16:19	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/05/22 16:19	1
Total Dissolved Solids	889		10.0	10.0 mg/L			07/01/22 16:57	1
pH	6.3	HF		SU			06/30/22 17:16	1
Temperature	16.4	HF		Degrees C			06/30/22 17:16	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-16444-1
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)	(80-117)
860-28656-A-31 MS	Matrix Spike	94	94	83	97
880-16444-1	Levey Well	97	97	99	100
LCS 860-59375/3	Lab Control Sample	98	94	87	94
LCSD 860-59375/4	Lab Control Sample Dup	97	98	87	99
MB 860-59375/9	Method Blank	99	93	94	99
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-16444-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-59375/9

Matrix: Water

Analysis Batch: 59375

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			07/01/22 01:11	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/01/22 01:11	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/01/22 01:11	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/01/22 01:11	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/01/22 01:11	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/01/22 01:11	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			07/01/22 01:11	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/01/22 01:11	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/01/22 01:11	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/01/22 01:11	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/01/22 01:11	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/01/22 01:11	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/01/22 01:11	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/01/22 01:11	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/01/22 01:11	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/01/22 01:11	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/01/22 01:11	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/01/22 01:11	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/01/22 01:11	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/01/22 01:11	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/01/22 01:11	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/01/22 01:11	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/01/22 01:11	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/01/22 01:11	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/01/22 01:11	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/01/22 01:11	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/01/22 01:11	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/01/22 01:11	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/01/22 01:11	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/01/22 01:11	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/01/22 01:11	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/01/22 01:11	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/01/22 01:11	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/01/22 01:11	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/01/22 01:11	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/01/22 01:11	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/01/22 01:11	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/01/22 01:11	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/01/22 01:11	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/01/22 01:11	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/01/22 01:11	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/01/22 01:11	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/01/22 01:11	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/01/22 01:11	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/01/22 01:11	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/01/22 01:11	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/01/22 01:11	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/01/22 01:11	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-16444-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-59375/9

Matrix: Water

Analysis Batch: 59375

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	<0.000256	U	0.00100	0.000256 mg/L			07/01/22 01:11	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/01/22 01:11	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/01/22 01:11	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/01/22 01:11	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/01/22 01:11	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/01/22 01:11	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/01/22 01:11	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/01/22 01:11	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/01/22 01:11	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			07/01/22 01:11	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			07/01/22 01:11	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/01/22 01:11	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			07/01/22 01:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		07/01/22 01:11	1
Dibromofluoromethane (Surr)	93		75 - 131		07/01/22 01:11	1
1,2-Dichloroethane-d4 (Surr)	94		63 - 144		07/01/22 01:11	1
Toluene-d8 (Surr)	99		80 - 117		07/01/22 01:11	1

Lab Sample ID: LCS 860-59375/3

Matrix: Water

Analysis Batch: 59375

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	0.04747		mg/L		95	66 - 142
Bromobenzene	0.0500	0.05085		mg/L		102	75 - 125
Bromochloromethane	0.0500	0.04933		mg/L		99	60 - 140
Bromodichloromethane	0.0500	0.04753		mg/L		95	75 - 125
Bromoform	0.0500	0.04711		mg/L		94	75 - 125
Bromomethane	0.0500	0.04414		mg/L		88	60 - 140
2-Butanone	0.250	0.2423		mg/L		97	60 - 140
Carbon tetrachloride	0.0500	0.04665		mg/L		93	62 - 125
Chlorobenzene	0.0500	0.04844		mg/L		97	60 - 133
Chloroethane	0.0500	0.04384		mg/L		88	60 - 140
Chloroform	0.0500	0.04404		mg/L		88	70 - 130
Chloromethane	0.0500	0.04093		mg/L		82	60 - 140
2-Chlorotoluene	0.0500	0.04735		mg/L		95	73 - 125
4-Chlorotoluene	0.0500	0.04811		mg/L		96	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04502		mg/L		90	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05034		mg/L		101	74 - 125
Dibromochloromethane	0.0500	0.04851		mg/L		97	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04374		mg/L		87	59 - 125
1,2-Dibromoethane	0.0500	0.04974		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.04876		mg/L		98	75 - 125
1,3-Dichlorobenzene	0.0500	0.05019		mg/L		100	75 - 125
1,4-Dichlorobenzene	0.0500	0.04780		mg/L		96	75 - 125
Dichlorodifluoromethane	0.0500	0.03125	*-	mg/L		63	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-16444-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-59375/3

Matrix: Water

Analysis Batch: 59375

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	0.04570		mg/L		91	72 - 125
1,2-Dichloroethane	0.0500	0.04595		mg/L		92	68 - 127
1,1-Dichloroethene	0.0500	0.05013		mg/L		100	59 - 172
1,2-Dichloropropane	0.0500	0.04844		mg/L		97	74 - 125
1,3-Dichloropropane	0.0500	0.04682		mg/L		94	75 - 125
2,2-Dichloropropane	0.0500	0.04482		mg/L		90	75 - 125
1,1-Dichloropropene	0.0500	0.04415		mg/L		88	75 - 125
Ethylbenzene	0.0500	0.04819		mg/L		96	75 - 125
Hexachlorobutadiene	0.0500	0.05228		mg/L		105	75 - 125
Isopropylbenzene	0.0500	0.05241		mg/L		105	75 - 125
Methylene Chloride	0.0500	0.04644		mg/L		93	75 - 125
m,p-Xylenes	0.0500	0.04849		mg/L		97	75 - 125
MTBE	0.0500	0.04732		mg/L		95	65 - 135
Naphthalene	0.0500	0.04855		mg/L		97	70 - 130
n-Butylbenzene	0.0500	0.04984		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.04938		mg/L		99	75 - 125
o-Xylene	0.0500	0.05045		mg/L		101	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05172		mg/L		103	75 - 125
sec-Butylbenzene	0.0500	0.05114		mg/L		102	75 - 125
Styrene	0.0500	0.05327		mg/L		107	75 - 125
tert-Butylbenzene	0.0500	0.05245		mg/L		105	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04976		mg/L		100	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04741		mg/L		95	74 - 125
Tetrachloroethene	0.0500	0.04766		mg/L		95	71 - 125
Toluene	0.0500	0.04712		mg/L		94	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04850		mg/L		97	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04875		mg/L		98	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04875		mg/L		98	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05052		mg/L		101	75 - 135
1,1,1-Trichloroethane	0.0500	0.04383		mg/L		88	75 - 125
1,1,2-Trichloroethane	0.0500	0.04642		mg/L		93	75 - 127
Trichloroethene	0.0500	0.05019		mg/L		100	62 - 137
Trichlorofluoromethane	0.0500	0.04635		mg/L		93	60 - 140
1,2,3-Trichloropropane	0.0500	0.04607		mg/L		92	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05138		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04914		mg/L		98	60 - 140
Vinyl chloride	0.0500	0.04113		mg/L		82	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	94		75 - 131
1,2-Dichloroethane-d4 (Surr)	87		63 - 144
Toluene-d8 (Surr)	94		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-16444-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-59375/4

Matrix: Water

Analysis Batch: 59375

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	0.04786		mg/L		96	66 - 142	1	25
Bromobenzene	0.0500	0.05315		mg/L		106	75 - 125	4	25
Bromochloromethane	0.0500	0.05259		mg/L		105	60 - 140	6	25
Bromodichloromethane	0.0500	0.04794		mg/L		96	75 - 125	1	25
Bromoform	0.0500	0.04968		mg/L		99	75 - 125	5	25
Bromomethane	0.0500	0.04533		mg/L		91	60 - 140	3	25
2-Butanone	0.250	0.2756		mg/L		110	60 - 140	13	25
Carbon tetrachloride	0.0500	0.04616		mg/L		92	62 - 125	1	25
Chlorobenzene	0.0500	0.05006		mg/L		100	60 - 133	3	25
Chloroethane	0.0500	0.04600		mg/L		92	60 - 140	5	25
Chloroform	0.0500	0.04686		mg/L		94	70 - 130	6	25
Chloromethane	0.0500	0.04048		mg/L		81	60 - 140	1	25
2-Chlorotoluene	0.0500	0.04994		mg/L		100	73 - 125	5	25
4-Chlorotoluene	0.0500	0.05053		mg/L		101	74 - 125	5	25
cis-1,2-Dichloroethene	0.0500	0.04638		mg/L		93	75 - 125	3	25
cis-1,3-Dichloropropene	0.0500	0.05151		mg/L		103	74 - 125	2	25
Dibromochloromethane	0.0500	0.05296		mg/L		106	73 - 125	9	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05103		mg/L		102	59 - 125	15	25
1,2-Dibromoethane	0.0500	0.05359		mg/L		107	73 - 125	7	25
1,2-Dichlorobenzene	0.0500	0.05449		mg/L		109	75 - 125	11	25
1,3-Dichlorobenzene	0.0500	0.05297		mg/L		106	75 - 125	5	25
1,4-Dichlorobenzene	0.0500	0.05149		mg/L		103	75 - 125	7	25
Dichlorodifluoromethane	0.0500	0.02682	*	mg/L		54	70 - 130	15	25
1,1-Dichloroethane	0.0500	0.04568		mg/L		91	72 - 125	0	25
1,2-Dichloroethane	0.0500	0.04588		mg/L		92	68 - 127	0	25
1,1-Dichloroethene	0.0500	0.05476		mg/L		110	59 - 172	9	25
1,2-Dichloropropane	0.0500	0.04891		mg/L		98	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.05103		mg/L		102	75 - 125	9	25
2,2-Dichloropropane	0.0500	0.04544		mg/L		91	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.04635		mg/L		93	75 - 125	5	25
Ethylbenzene	0.0500	0.05039		mg/L		101	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05970		mg/L		119	75 - 125	13	25
Isopropylbenzene	0.0500	0.05413		mg/L		108	75 - 125	3	25
Methylene Chloride	0.0500	0.04896		mg/L		98	75 - 125	5	25
m,p-Xylenes	0.0500	0.05086		mg/L		102	75 - 125	5	25
MTBE	0.0500	0.05225		mg/L		105	65 - 135	10	25
Naphthalene	0.0500	0.05480		mg/L		110	70 - 130	12	25
n-Butylbenzene	0.0500	0.05482		mg/L		110	75 - 125	10	25
N-Propylbenzene	0.0500	0.05191		mg/L		104	75 - 125	5	25
o-Xylene	0.0500	0.05225		mg/L		104	75 - 125	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05507		mg/L		110	75 - 125	6	25
sec-Butylbenzene	0.0500	0.05383		mg/L		108	75 - 125	5	25
Styrene	0.0500	0.05493		mg/L		110	75 - 125	3	25
tert-Butylbenzene	0.0500	0.05520		mg/L		110	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.05207		mg/L		104	72 - 125	5	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.05001		mg/L		100	74 - 125	5	25
Tetrachloroethene	0.0500	0.05032		mg/L		101	71 - 125	5	25
Toluene	0.0500	0.05005		mg/L		100	59 - 139	6	25

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QC Sample Results

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

Job ID: 880-16444-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-59375/4

Matrix: Water

Analysis Batch: 59375

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	0.05118		mg/L		102	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.05308		mg/L		106	66 - 125	9	25
1,2,3-Trichlorobenzene	0.0500	0.05759		mg/L		115	75 - 137	17	25
1,2,4-Trichlorobenzene	0.0500	0.06039		mg/L		121	75 - 135	18	25
1,1,1-Trichloroethane	0.0500	0.04563		mg/L		91	75 - 125	4	25
1,1,2-Trichloroethane	0.0500	0.05060		mg/L		101	75 - 127	9	25
Trichloroethene	0.0500	0.05151		mg/L		103	62 - 137	3	25
Trichlorofluoromethane	0.0500	0.04653		mg/L		93	60 - 140	0	25
1,2,3-Trichloropropane	0.0500	0.05091		mg/L		102	75 - 125	10	25
1,2,4-Trimethylbenzene	0.0500	0.05412		mg/L		108	75 - 125	5	25
1,3,5-Trimethylbenzene	0.0500	0.05215		mg/L		104	60 - 140	6	25
Vinyl chloride	0.0500	0.04098		mg/L		82	60 - 140	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	87		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-59187/3

Matrix: Water

Analysis Batch: 59187

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			06/30/22 09:09	1
Chloride	<0.200	U	0.500	0.200 mg/L			06/30/22 09:09	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/30/22 09:09	1
Sulfate	<0.109	U	0.500	0.109 mg/L			06/30/22 09:09	1

Lab Sample ID: LCS 860-59187/6

Matrix: Water

Analysis Batch: 59187

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	9.889		mg/L		99	90 - 110
Chloride	10.0	9.832		mg/L		98	90 - 110
Fluoride	10.0	10.35		mg/L		103	90 - 110
Sulfate	10.0	9.880		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-59187/7

Matrix: Water

Analysis Batch: 59187

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	9.915		mg/L		99	90 - 110	0	20
Chloride	10.0	9.790		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.38		mg/L		104	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-16444-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-59187/7

Matrix: Water

Analysis Batch: 59187

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	9.869		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-59187/5

Matrix: Water

Analysis Batch: 59187

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	0.4626	J	mg/L		93	50 - 150		
Chloride	0.500	0.5449		mg/L		109	50 - 150		
Fluoride	0.500	0.4039	J	mg/L		81	50 - 150		
Sulfate	0.500	0.5073		mg/L		101	50 - 150		

Lab Sample ID: MB 860-59188/3

Matrix: Water

Analysis Batch: 59188

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			06/30/22 09:09	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/30/22 09:09	1

Lab Sample ID: LCS 860-59188/6

Matrix: Water

Analysis Batch: 59188

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	9.952		mg/L		100	80 - 120		
Nitrite as N	5.00	5.041		mg/L		101	80 - 120		

Lab Sample ID: LCSD 860-59188/7

Matrix: Water

Analysis Batch: 59188

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	9.963		mg/L		100	80 - 120	0	20
Nitrite as N	5.00	5.060		mg/L		101	80 - 120	0	20

Lab Sample ID: LLCS 860-59188/4

Matrix: Water

Analysis Batch: 59188

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	0.1193		mg/L		119	50 - 150		
Nitrite as N	0.100	0.09498	J	mg/L		95	50 - 150		

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QC Sample Results

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

Job ID: 880-16444-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-59579/1-A

Matrix: Water

Analysis Batch: 60122

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 59579

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		07/02/22 10:28	07/07/22 10:48	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		07/02/22 10:28	07/07/22 10:48	1
Potassium	<0.107	U	0.500	0.107 mg/L		07/02/22 10:28	07/07/22 10:48	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		07/02/22 10:28	07/07/22 10:48	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		07/02/22 10:28	07/07/22 10:48	1

Lab Sample ID: LCS 860-59579/2-A

Matrix: Water

Analysis Batch: 60122

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 59579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.62		mg/L		98	85 - 115
Magnesium	25.0	24.09		mg/L		96	85 - 115
Potassium	10.0	9.915		mg/L		99	85 - 115
Sodium	25.0	24.32		mg/L		97	85 - 115
SiO2	21.4	20.85		mg/L		97	85 - 115

Lab Sample ID: LCSD 860-59579/3-A

Matrix: Water

Analysis Batch: 60122

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 59579

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.59		mg/L		98	85 - 115	0	20
Magnesium	25.0	24.23		mg/L		97	85 - 115	1	20
Potassium	10.0	9.885		mg/L		99	85 - 115	0	20
Sodium	25.0	24.50		mg/L		98	85 - 115	1	20
SiO2	21.4	20.98		mg/L		98	85 - 115	1	20

Lab Sample ID: LLCS 860-59579/4-A

Matrix: Water

Analysis Batch: 60122

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 59579

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2189		mg/L		109	50 - 150
Magnesium	0.200	0.1940	J	mg/L		97	50 - 150
Potassium	0.500	0.5526		mg/L		111	50 - 150
Sodium	0.500	0.3839	J	mg/L		77	50 - 150
SiO2	1.07	1.092		mg/L		102	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-59852/4

Matrix: Water

Analysis Batch: 59852

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			07/05/22 15:49	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/05/22 15:49	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/05/22 15:49	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/05/22 15:49	1

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QC Sample Results

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

Job ID: 880-16444-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-59852/4

Matrix: Water

Analysis Batch: 59852

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/05/22 15:49	1

Lab Sample ID: LCS 860-59852/5

Matrix: Water

Analysis Batch: 59852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	272.1		mg/L		109	85 - 115

Lab Sample ID: LCSD 860-59852/6

Matrix: Water

Analysis Batch: 59852

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	271.9		mg/L		109	85 - 115	0	20

Lab Sample ID: 880-16444-1 DU

Matrix: Water

Analysis Batch: 59852

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	674		704.6		mg/L		4	20
Bicarbonate Alkalinity as CaCO3	674		704.6		mg/L		4	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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

Lab Sample ID: MB 860-59532/1

Matrix: Water

Analysis Batch: 59532

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			07/01/22 16:57	1

Lab Sample ID: LCS 860-59532/2

Matrix: Water

Analysis Batch: 59532

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	965.0		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-59532/3

Matrix: Water

Analysis Batch: 59532

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	932.0		mg/L		93	80 - 120	3	10

Eurofins Midland

QC Sample Results

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

Job ID: 880-16444-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-59532/26				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 59532							
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		60	50 - 150

QC Association Summary

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

Job ID: 880-16444-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 59375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16444-1	Levey Well	Total/NA	Water	8260C	
MB 860-59375/9	Method Blank	Total/NA	Water	8260C	
LCS 860-59375/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-59375/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 59187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16444-1	Levey Well	Total/NA	Water	300.0	
MB 860-59187/3	Method Blank	Total/NA	Water	300.0	
LCS 860-59187/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-59187/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-59187/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 59188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16444-1	Levey Well	Total/NA	Water	300.0	
MB 860-59188/3	Method Blank	Total/NA	Water	300.0	
LCS 860-59188/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-59188/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-59188/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 59579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16444-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-59579/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-59579/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-59579/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-59579/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 60122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16444-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	59579
880-16444-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	59579
MB 860-59579/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	59579
LCS 860-59579/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	59579
LCSD 860-59579/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	59579
LLCS 860-59579/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	59579

General Chemistry

Analysis Batch: 59363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16444-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 59532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16444-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-59532/1	Method Blank	Total/NA	Water	SM 2540C	

Eurofins Midland

QC Association Summary

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

Job ID: 880-16444-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 59532 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-59532/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-59532/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-59532/26	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 59780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16444-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 59852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16444-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-59852/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-59852/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-59852/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-16444-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Lab Chronicle

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

Job ID: 880-16444-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-16444-1
Date Collected: 06/29/22 10:30 Matrix: Water
Date Received: 06/29/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	59375	07/01/22 04:59	A1S	XEN STF
Total/NA	Analysis	300.0		1	59187	06/30/22 17:24	W1N	XEN STF
Total/NA	Analysis	300.0		1	59188	06/30/22 17:24	W1N	XEN STF
Total Recoverable	Prep	200.7			59579	07/02/22 10:28	AGR	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	60122	07/07/22 11:41	DP	XEN STF
Total Recoverable	Prep	200.7			59579	07/02/22 10:28	AGR	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	60122	07/07/22 11:52	DP	XEN STF
Total/NA	Analysis	SM 1030E		1	59780	07/05/22 17:25	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	59852	07/05/22 16:19	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	59532	07/01/22 16:57	ADL	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	59363	06/30/22 17:16	TL	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

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

Job ID: 880-16444-1
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	T104704215-22-46	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
200.7 Rev 4.4	200.7	Water	SiO2
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

Method Summary

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

Job ID: 880-16444-1
SDG: Hobbs NM

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

Protocol References:
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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:
XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

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

Job ID: 880-16444-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16444-1	Levey Well	Water	06/29/22 10:30	06/29/22 14:53

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Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3333
Midland, TX (432-704-5440) El Paso, TX (915)565-3443 Lubbock, TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa, FL (813)555-3927
Hobbs NM (575-392-7550)



880-16444 Chain of Custody

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	432-230-3344	Email:	bjennings@ensolum.com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADAPT ☐ Other ☐

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

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	-86						
Received Infract:	Yes	No					
Cooler Custody Seal:	Yes	No			Correction Factor:		
Sample Custody Seals:	Yes	No			Total Containers:		

[illegible][illegible]

CUSTODY SEAL



ENVIRONMENTAL SAMPLING SUPPLY
www.essvial.com 800-233-8425

Date: 6-28-22
Signature: [Signature]

Total	200.7 / 6010	200.8 / 6020:		
	8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010	8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	1631 / 245.1 / 7470 / 7471 Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	10/29/22	2		
3		14:53	4		
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-16444-1

SDG Number: Hobbs NM

Login Number: 16444

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: 880-16444-1

SDG Number: Hobbs NM

Login Number: 16444

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 06/30/22 11:34 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16443-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

7/6/2022 4:07:16 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

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

Laboratory Job ID: 880-16443-1

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Definitions/Glossary

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

Job ID: 880-16443-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Definitions/Glossary

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

Job ID: 880-16443-1

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: 880-16443-1

Job ID: 880-16443-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-16443-1

Receipt

The samples were received on 6/29/2022 2:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC/MS VOA

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 860-59326 were outside control limits: (860-28763-B-1 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260C: Due to the high concentration of Tetrachloroethene, the matrix spike duplicate (MSD) for analytical batch 860-59326 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.

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 860-59187 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-59188 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-16443-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16443-1

Date Collected: 06/29/22 11:15

Matrix: Water

Date Received: 06/29/22 14:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			07/01/22 02:51	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/01/22 02:51	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/01/22 02:51	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/01/22 02:51	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/01/22 02:51	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/01/22 02:51	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			07/01/22 02:51	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/01/22 02:51	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/01/22 02:51	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/01/22 02:51	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/01/22 02:51	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/01/22 02:51	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/01/22 02:51	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/01/22 02:51	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/01/22 02:51	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/01/22 02:51	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/01/22 02:51	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/01/22 02:51	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/01/22 02:51	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/01/22 02:51	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/01/22 02:51	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/01/22 02:51	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/01/22 02:51	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/01/22 02:51	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/01/22 02:51	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/01/22 02:51	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/01/22 02:51	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/01/22 02:51	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/01/22 02:51	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/01/22 02:51	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/01/22 02:51	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/01/22 02:51	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/01/22 02:51	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/01/22 02:51	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/01/22 02:51	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/01/22 02:51	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/01/22 02:51	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/01/22 02:51	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/01/22 02:51	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/01/22 02:51	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/01/22 02:51	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/01/22 02:51	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/01/22 02:51	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/01/22 02:51	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/01/22 02:51	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/01/22 02:51	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/01/22 02:51	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/01/22 02:51	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/01/22 02:51	1

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Client Sample Results

Client: Ensolum

Job ID: 880-16443-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16443-1

Date Collected: 06/29/22 11:15

Matrix: Water

Date Received: 06/29/22 14:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/01/22 02:51	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/01/22 02:51	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/01/22 02:51	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/01/22 02:51	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/01/22 02:51	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/01/22 02:51	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/01/22 02:51	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/01/22 02:51	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			07/01/22 02:51	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			07/01/22 02:51	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/01/22 02:51	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			07/01/22 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		07/01/22 02:51	1
Dibromofluoromethane (Surr)	97		75 - 131		07/01/22 02:51	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		07/01/22 02:51	1
Toluene-d8 (Surr)	99		80 - 117		07/01/22 02:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	0.954	J	4.67	0.923 mg/L			07/01/22 18:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.954	J	4.67	0.923 mg/L		06/30/22 16:47	06/30/22 21:32	1
Diesel Range Organics (Over C10-C28)	<0.923	U	4.67	0.923 mg/L		06/30/22 16:47	06/30/22 21:32	1
Oil Range Organics (Over C28-C36)	<0.891	U	4.67	0.891 mg/L		06/30/22 16:47	06/30/22 21:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 135			06/30/22 16:47	06/30/22 21:32	1
o-Terphenyl	109		70 - 135			06/30/22 16:47	06/30/22 21:32	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.8		0.500	0.200 mg/L			06/30/22 15:53	1
Nitrate as N	0.199		0.100	0.0391 mg/L			06/30/22 15:53	1
Fluoride	0.644		0.500	0.100 mg/L			06/30/22 15:53	1
Nitrite as N	0.556		0.100	0.0293 mg/L			06/30/22 15:53	1
Sulfate	48.0		0.500	0.109 mg/L			06/30/22 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	264		4.00	4.00 mg/L			07/02/22 15:00	1
Bicarbonate Alkalinity as CaCO3	264		4.00	4.00 mg/L			07/02/22 15:00	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/02/22 15:00	1
Carbon dioxide	265			mg/L			07/06/22 13:15	1
Carbon Dioxide, Free	33.2			mg/L			07/06/22 13:15	1
pH	7.2	HF		SU			06/30/22 17:13	1

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Client Sample Results

Client: Ensolum

Job ID: 880-16443-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16443-1

Date Collected: 06/29/22 11:15

Matrix: Water

Date Received: 06/29/22 14:53

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	15.8	HF		Degrees C			06/30/22 17:13	1
Sulfide	1.00	J	5.00	0.495 mg/L			06/30/22 17:54	1

Client Sample ID: MW-2

Lab Sample ID: 880-16443-2

Date Collected: 06/29/22 12:05

Matrix: Water

Date Received: 06/29/22 14:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0119		0.00100	0.000214 mg/L			07/01/22 03:12	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/01/22 03:12	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/01/22 03:12	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/01/22 03:12	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/01/22 03:12	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/01/22 03:12	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			07/01/22 03:12	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/01/22 03:12	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/01/22 03:12	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/01/22 03:12	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/01/22 03:12	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/01/22 03:12	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/01/22 03:12	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/01/22 03:12	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/01/22 03:12	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/01/22 03:12	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/01/22 03:12	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/01/22 03:12	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/01/22 03:12	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/01/22 03:12	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/01/22 03:12	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/01/22 03:12	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/01/22 03:12	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/01/22 03:12	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/01/22 03:12	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/01/22 03:12	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/01/22 03:12	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/01/22 03:12	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/01/22 03:12	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/01/22 03:12	1
Ethylbenzene	0.0113		0.00100	0.000515 mg/L			07/01/22 03:12	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/01/22 03:12	1
Isopropylbenzene	0.00741		0.00100	0.000161 mg/L			07/01/22 03:12	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/01/22 03:12	1
m,p-Xylenes	0.0579		0.0100	0.000330 mg/L			07/01/22 03:12	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/01/22 03:12	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/01/22 03:12	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/01/22 03:12	1
N-Propylbenzene	0.00193		0.00100	0.000179 mg/L			07/01/22 03:12	1
o-Xylene	0.00209		0.00100	0.000192 mg/L			07/01/22 03:12	1
p-Cymene (p-Isopropyltoluene)	0.000608	J	0.00100	0.000233 mg/L			07/01/22 03:12	1

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Client Sample Results

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

Job ID: 880-16443-1

Client Sample ID: MW-2

Lab Sample ID: 880-16443-2

Date Collected: 06/29/22 12:05

Matrix: Water

Date Received: 06/29/22 14:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.000827	J	0.00100	0.000199	mg/L		07/01/22 03:12	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		07/01/22 03:12	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		07/01/22 03:12	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		07/01/22 03:12	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		07/01/22 03:12	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		07/01/22 03:12	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L		07/01/22 03:12	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		07/01/22 03:12	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		07/01/22 03:12	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		07/01/22 03:12	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		07/01/22 03:12	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L		07/01/22 03:12	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L		07/01/22 03:12	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L		07/01/22 03:12	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L		07/01/22 03:12	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L		07/01/22 03:12	1
1,2,4-Trimethylbenzene	0.0213		0.00100	0.000252	mg/L		07/01/22 03:12	1
1,3,5-Trimethylbenzene	0.00586		0.00100	0.000279	mg/L		07/01/22 03:12	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L		07/01/22 03:12	1
Xylenes, Total	0.0600		0.0100	0.000330	mg/L		07/01/22 03:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		74 - 124				07/01/22 03:12	1
Dibromofluoromethane (Surr)	95		75 - 131				07/01/22 03:12	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144				07/01/22 03:12	1
Toluene-d8 (Surr)	98		80 - 117				07/01/22 03:12	1

Method: 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		07/01/22 18:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.935	U	4.73	0.935	mg/L	06/30/22 16:47	06/30/22 21:52	1
Diesel Range Organics (Over C10-C28)	<0.935	U	4.73	0.935	mg/L	06/30/22 16:47	06/30/22 21:52	1
Oil Range Organics (Over C28-C36)	<0.902	U	4.73	0.902	mg/L	06/30/22 16:47	06/30/22 21:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135			06/30/22 16:47	06/30/22 21:52	1
o-Terphenyl	100		70 - 135			06/30/22 16:47	06/30/22 21:52	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.6		0.500	0.200	mg/L		06/30/22 16:59	1
Nitrate as N	0.351		0.100	0.0391	mg/L		06/30/22 16:59	1
Fluoride	0.111	J	0.500	0.100	mg/L		06/30/22 16:59	1
Nitrite as N	0.827		0.100	0.0293	mg/L		06/30/22 16:59	1
Sulfate	89.7		0.500	0.109	mg/L		06/30/22 16:59	1

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Client Sample Results

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

Job ID: 880-16443-1

Client Sample ID: MW-2
Date Collected: 06/29/22 12:05
Date Received: 06/29/22 14:53

Lab Sample ID: 880-16443-2
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1330		4.00	4.00	mg/L			07/05/22 16:47	1
Bicarbonate Alkalinity as CaCO3	1330		4.00	4.00	mg/L			07/05/22 16:47	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			07/05/22 16:47	1
Carbon dioxide	2850				mg/L			07/06/22 13:15	1
Carbon Dioxide, Free	1680				mg/L			07/06/22 13:15	1
pH	6.2	HF			SU			06/30/22 17:15	1
Temperature	15.9	HF			Degrees C			06/30/22 17:15	1
Sulfide	<0.495	U	5.00	0.495	mg/L			06/30/22 17:55	1

Surrogate Summary

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

Job ID: 880-16443-1

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 (80-117)
860-28763-B-1 MS	Matrix Spike	98	94	101	98
860-28763-B-1 MSD	Matrix Spike Duplicate	98	97	100	97
880-16443-1	MW-1	96	97	108	99
880-16443-2	MW-2	93	95	104	98
LCS 860-59326/3	Lab Control Sample	97	97	99	98
LCSD 860-59326/4	Lab Control Sample Dup	98	97	99	98
MB 860-59326/8	Method Blank	99	97	101	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
880-16443-1	MW-1	89	109
880-16443-2	MW-2	87	100
LCS 860-59345/2-A	Lab Control Sample	99	108
LCSD 860-59345/3-A	Lab Control Sample Dup	98	115
MB 860-59345/1-A	Method Blank	101	119

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum

Job ID: 880-16443-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-59326/8

Matrix: Water

Analysis Batch: 59326

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			06/30/22 23:05	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			06/30/22 23:05	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			06/30/22 23:05	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			06/30/22 23:05	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			06/30/22 23:05	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			06/30/22 23:05	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			06/30/22 23:05	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			06/30/22 23:05	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			06/30/22 23:05	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			06/30/22 23:05	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			06/30/22 23:05	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			06/30/22 23:05	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			06/30/22 23:05	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			06/30/22 23:05	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			06/30/22 23:05	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			06/30/22 23:05	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			06/30/22 23:05	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			06/30/22 23:05	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			06/30/22 23:05	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			06/30/22 23:05	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			06/30/22 23:05	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			06/30/22 23:05	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			06/30/22 23:05	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			06/30/22 23:05	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			06/30/22 23:05	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			06/30/22 23:05	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			06/30/22 23:05	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			06/30/22 23:05	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			06/30/22 23:05	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			06/30/22 23:05	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			06/30/22 23:05	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			06/30/22 23:05	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			06/30/22 23:05	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			06/30/22 23:05	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			06/30/22 23:05	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			06/30/22 23:05	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			06/30/22 23:05	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			06/30/22 23:05	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			06/30/22 23:05	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			06/30/22 23:05	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			06/30/22 23:05	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			06/30/22 23:05	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			06/30/22 23:05	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			06/30/22 23:05	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			06/30/22 23:05	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			06/30/22 23:05	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			06/30/22 23:05	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			06/30/22 23:05	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16443-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-59326/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 59326

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		06/30/22 23:05	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		06/30/22 23:05	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		06/30/22 23:05	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		06/30/22 23:05	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L		06/30/22 23:05	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L		06/30/22 23:05	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L		06/30/22 23:05	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L		06/30/22 23:05	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L		06/30/22 23:05	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L		06/30/22 23:05	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L		06/30/22 23:05	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L		06/30/22 23:05	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L		06/30/22 23:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		06/30/22 23:05	1
Dibromofluoromethane (Surr)	97		75 - 131		06/30/22 23:05	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		06/30/22 23:05	1
Toluene-d8 (Surr)	98		80 - 117		06/30/22 23:05	1

Lab Sample ID: LCS 860-59326/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 59326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04371		mg/L		87	66 - 142
Bromobenzene	0.0500	0.04742		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.04772		mg/L		95	60 - 140
Bromodichloromethane	0.0500	0.04809		mg/L		96	75 - 125
Bromoform	0.0500	0.05152		mg/L		103	75 - 125
Bromomethane	0.0500	0.05726		mg/L		115	60 - 140
2-Butanone	0.250	0.2206		mg/L		88	60 - 140
Carbon tetrachloride	0.0500	0.04816		mg/L		96	62 - 125
Chlorobenzene	0.0500	0.04751		mg/L		95	60 - 133
Chloroethane	0.0500	0.04515		mg/L		90	60 - 140
Chloroform	0.0500	0.04709		mg/L		94	70 - 130
Chloromethane	0.0500	0.03500		mg/L		70	60 - 140
2-Chlorotoluene	0.0500	0.04712		mg/L		94	73 - 125
4-Chlorotoluene	0.0500	0.04773		mg/L		95	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04359		mg/L		87	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04626		mg/L		93	74 - 125
Dibromochloromethane	0.0500	0.05076		mg/L		102	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05030		mg/L		101	59 - 125
1,2-Dibromoethane	0.0500	0.04676		mg/L		94	73 - 125
1,2-Dichlorobenzene	0.0500	0.04831		mg/L		97	75 - 125
1,3-Dichlorobenzene	0.0500	0.04790		mg/L		96	75 - 125
1,4-Dichlorobenzene	0.0500	0.04731		mg/L		95	75 - 125
Dichlorodifluoromethane	0.0500	0.04292		mg/L		86	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-16443-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-59326/3

Matrix: Water

Analysis Batch: 59326

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	0.04153		mg/L		83	72 - 125
1,2-Dichloroethane	0.0500	0.04875		mg/L		98	68 - 127
1,1-Dichloroethene	0.0500	0.04121		mg/L		82	59 - 172
1,2-Dichloropropane	0.0500	0.04291		mg/L		86	74 - 125
1,3-Dichloropropane	0.0500	0.04619		mg/L		92	75 - 125
2,2-Dichloropropane	0.0500	0.04568		mg/L		91	75 - 125
1,1-Dichloropropene	0.0500	0.04288		mg/L		86	75 - 125
Ethylbenzene	0.0500	0.04832		mg/L		97	75 - 125
Hexachlorobutadiene	0.0500	0.05241		mg/L		105	75 - 125
Isopropylbenzene	0.0500	0.05142		mg/L		103	75 - 125
Methylene Chloride	0.0500	0.04094		mg/L		82	75 - 125
m,p-Xylenes	0.0500	0.04936		mg/L		99	75 - 125
MTBE	0.0500	0.04698		mg/L		94	65 - 135
Naphthalene	0.0500	0.05547		mg/L		111	70 - 130
n-Butylbenzene	0.0500	0.04946		mg/L		99	75 - 125
N-Propylbenzene	0.0500	0.04716		mg/L		94	75 - 125
o-Xylene	0.0500	0.04985		mg/L		100	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05206		mg/L		104	75 - 125
sec-Butylbenzene	0.0500	0.05000		mg/L		100	75 - 125
Styrene	0.0500	0.05044		mg/L		101	75 - 125
tert-Butylbenzene	0.0500	0.05113		mg/L		102	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05029		mg/L		101	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04417		mg/L		88	74 - 125
Tetrachloroethene	0.0500	0.04675		mg/L		93	71 - 125
Toluene	0.0500	0.04564		mg/L		91	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04086		mg/L		82	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04868		mg/L		97	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05592		mg/L		112	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05204		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.04822		mg/L		96	75 - 125
1,1,2-Trichloroethane	0.0500	0.04600		mg/L		92	75 - 127
Trichloroethene	0.0500	0.04723		mg/L		94	62 - 137
Trichlorofluoromethane	0.0500	0.04662		mg/L		93	60 - 140
1,2,3-Trichloropropane	0.0500	0.04452		mg/L		89	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05068		mg/L		101	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05080		mg/L		102	60 - 140
Vinyl chloride	0.0500	0.04325		mg/L		86	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	98		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16443-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-59326/4

Matrix: Water

Analysis Batch: 59326

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	0.04373		mg/L		87	66 - 142	0	25
Bromobenzene	0.0500	0.04682		mg/L		94	75 - 125	1	25
Bromochloromethane	0.0500	0.04706		mg/L		94	60 - 140	1	25
Bromodichloromethane	0.0500	0.04731		mg/L		95	75 - 125	2	25
Bromoform	0.0500	0.05287		mg/L		106	75 - 125	3	25
Bromomethane	0.0500	0.05727		mg/L		115	60 - 140	0	25
2-Butanone	0.250	0.2283		mg/L		91	60 - 140	3	25
Carbon tetrachloride	0.0500	0.04551		mg/L		91	62 - 125	6	25
Chlorobenzene	0.0500	0.04693		mg/L		94	60 - 133	1	25
Chloroethane	0.0500	0.04281		mg/L		86	60 - 140	5	25
Chloroform	0.0500	0.04664		mg/L		93	70 - 130	1	25
Chloromethane	0.0500	0.03338		mg/L		67	60 - 140	5	25
2-Chlorotoluene	0.0500	0.04627		mg/L		93	73 - 125	2	25
4-Chlorotoluene	0.0500	0.04748		mg/L		95	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.04303		mg/L		86	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.04610		mg/L		92	74 - 125	0	25
Dibromochloromethane	0.0500	0.04944		mg/L		99	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05291		mg/L		106	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.04780		mg/L		96	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04800		mg/L		96	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.04698		mg/L		94	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04720		mg/L		94	75 - 125	0	25
Dichlorodifluoromethane	0.0500	0.04143		mg/L		83	70 - 130	4	25
1,1-Dichloroethane	0.0500	0.04107		mg/L		82	72 - 125	1	25
1,2-Dichloroethane	0.0500	0.04877		mg/L		98	68 - 127	0	25
1,1-Dichloroethene	0.0500	0.04091		mg/L		82	59 - 172	1	25
1,2-Dichloropropane	0.0500	0.04284		mg/L		86	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.04669		mg/L		93	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04505		mg/L		90	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.04151		mg/L		83	75 - 125	3	25
Ethylbenzene	0.0500	0.04700		mg/L		94	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.05275		mg/L		105	75 - 125	1	25
Isopropylbenzene	0.0500	0.05072		mg/L		101	75 - 125	1	25
Methylene Chloride	0.0500	0.04064		mg/L		81	75 - 125	1	25
m,p-Xylenes	0.0500	0.04874		mg/L		97	75 - 125	1	25
MTBE	0.0500	0.04740		mg/L		95	65 - 135	1	25
Naphthalene	0.0500	0.06088		mg/L		122	70 - 130	9	25
n-Butylbenzene	0.0500	0.04863		mg/L		97	75 - 125	2	25
N-Propylbenzene	0.0500	0.04719		mg/L		94	75 - 125	0	25
o-Xylene	0.0500	0.04907		mg/L		98	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05187		mg/L		104	75 - 125	0	25
sec-Butylbenzene	0.0500	0.04935		mg/L		99	75 - 125	1	25
Styrene	0.0500	0.05030		mg/L		101	75 - 125	0	25
tert-Butylbenzene	0.0500	0.05003		mg/L		100	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.04890		mg/L		98	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.04527		mg/L		91	74 - 125	2	25
Tetrachloroethene	0.0500	0.04511		mg/L		90	71 - 125	4	25
Toluene	0.0500	0.04521		mg/L		90	59 - 139	1	25

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QC Sample Results

Client: Ensolum

Job ID: 880-16443-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-59326/4

Matrix: Water

Analysis Batch: 59326

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	0.03983		mg/L		80	75 - 125	3	25
trans-1,3-Dichloropropene	0.0500	0.04756		mg/L		95	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.06060		mg/L		121	75 - 137	8	25
1,2,4-Trichlorobenzene	0.0500	0.05381		mg/L		108	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.04689		mg/L		94	75 - 125	3	25
1,1,2-Trichloroethane	0.0500	0.04645		mg/L		93	75 - 127	1	25
Trichloroethene	0.0500	0.04690		mg/L		94	62 - 137	1	25
Trichlorofluoromethane	0.0500	0.04551		mg/L		91	60 - 140	2	25
1,2,3-Trichloropropane	0.0500	0.04562		mg/L		91	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.04988		mg/L		100	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.04983		mg/L		100	60 - 140	2	25
Vinyl chloride	0.0500	0.04159		mg/L		83	60 - 140	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	98		80 - 117

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

Lab Sample ID: MB 860-59345/1-A

Matrix: Water

Analysis Batch: 59247

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59345

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		06/30/22 16:47	06/30/22 19:55	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		06/30/22 16:47	06/30/22 19:55	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		06/30/22 16:47	06/30/22 19:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135	06/30/22 16:47	06/30/22 19:55	1
o-Terphenyl	119		70 - 135	06/30/22 16:47	06/30/22 19:55	1

Lab Sample ID: LCS 860-59345/2-A

Matrix: Water

Analysis Batch: 59247

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.8	96.87		mg/L		97	70 - 135
Diesel Range Organics (Over C10-C28)	100	100.3		mg/L		100	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 135
o-Terphenyl	108		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-16443-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-59345/3-A

Matrix: Water

Analysis Batch: 59247

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59345

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.8	89.42		mg/L		90	70 - 135	8	35
Diesel Range Organics (Over C10-C28)	100	98.94		mg/L		99	70 - 135	1	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	98		70 - 135						
o-Terphenyl	115		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-59187/3

Matrix: Water

Analysis Batch: 59187

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200 mg/L			06/30/22 09:09	1
Fluoride	<0.100	U	0.500	0.100 mg/L			06/30/22 09:09	1
Sulfate	<0.109	U	0.500	0.109 mg/L			06/30/22 09:09	1

Lab Sample ID: LCS 860-59187/6

Matrix: Water

Analysis Batch: 59187

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	9.832		mg/L		98	90 - 110
Fluoride	10.0	10.35		mg/L		103	90 - 110
Sulfate	10.0	9.880		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-59187/7

Matrix: Water

Analysis Batch: 59187

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	9.790		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.38		mg/L		104	90 - 110	0	20
Sulfate	10.0	9.869		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-59187/5

Matrix: Water

Analysis Batch: 59187

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	0.5449		mg/L		109	50 - 150
Fluoride	0.500	0.4039	J	mg/L		81	50 - 150
Sulfate	0.500	0.5073		mg/L		101	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16443-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-16443-1 MS

Matrix: Water

Analysis Batch: 59187

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	84.8		10.0	91.49	4	mg/L		67	90 - 110
Fluoride	0.644		10.0	11.10		mg/L		105	90 - 110
Sulfate	48.0		10.0	57.17	4	mg/L		92	90 - 110

Lab Sample ID: 880-16443-1 MSD

Matrix: Water

Analysis Batch: 59187

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	84.8		10.0	91.48	4	mg/L		67	90 - 110	0	20
Fluoride	0.644		10.0	11.09		mg/L		104	90 - 110	0	20
Sulfate	48.0		10.0	57.30	4	mg/L		93	90 - 110	0	20

Lab Sample ID: MB 860-59188/3

Matrix: Water

Analysis Batch: 59188

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			06/30/22 09:09	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			06/30/22 09:09	1

Lab Sample ID: LCS 860-59188/6

Matrix: Water

Analysis Batch: 59188

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	9.952		mg/L		100	80 - 120
Nitrite as N	5.00	5.041		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-59188/7

Matrix: Water

Analysis Batch: 59188

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	9.963		mg/L		100	80 - 120	0	20
Nitrite as N	5.00	5.060		mg/L		101	80 - 120	0	20

Lab Sample ID: LLCS 860-59188/4

Matrix: Water

Analysis Batch: 59188

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	0.1193		mg/L		119	50 - 150
Nitrite as N	0.100	0.09498	J	mg/L		95	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16443-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-59708/4

Matrix: Water

Analysis Batch: 59708

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			07/02/22 13:09	1
Bicarbonate Alkalinity as CaCO ₃	<4.00	U	4.00	4.00 mg/L			07/02/22 13:09	1
Carbonate Alkalinity as CaCO ₃	<4.00	U	4.00	4.00 mg/L			07/02/22 13:09	1

Lab Sample ID: LCS 860-59708/5

Matrix: Water

Analysis Batch: 59708

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	270.6		mg/L		108	85 - 115

Lab Sample ID: LCSD 860-59708/6

Matrix: Water

Analysis Batch: 59708

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	269.4		mg/L		108	85 - 115	0	20

Lab Sample ID: MB 860-59852/4

Matrix: Water

Analysis Batch: 59852

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			07/05/22 15:49	1
Bicarbonate Alkalinity as CaCO ₃	<4.00	U	4.00	4.00 mg/L			07/05/22 15:49	1
Carbonate Alkalinity as CaCO ₃	<4.00	U	4.00	4.00 mg/L			07/05/22 15:49	1

Lab Sample ID: LCS 860-59852/5

Matrix: Water

Analysis Batch: 59852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	272.1		mg/L		109	85 - 115

Lab Sample ID: LCSD 860-59852/6

Matrix: Water

Analysis Batch: 59852

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	271.9		mg/L		109	85 - 115	0	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-59371/1

Matrix: Water

Analysis Batch: 59371

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			06/30/22 17:54	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-16443-1

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

Lab Sample ID: LCS 860-59371/2				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 59371											
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 860-59371/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 59371											
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: 880-16443-1 MS				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 59371											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	1.00	J	50.0	46.60		mg/L		91	80 - 120		

Lab Sample ID: 880-16443-1 MSD				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 59371											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	1.00	J	50.0	46.20		mg/L		90	80 - 120	1	20

QC Association Summary

Client: Ensolum

Job ID: 880-16443-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 59326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16443-1	MW-1	Total/NA	Water	8260C	
880-16443-2	MW-2	Total/NA	Water	8260C	
MB 860-59326/8	Method Blank	Total/NA	Water	8260C	
LCS 860-59326/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-59326/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 59247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16443-1	MW-1	Total/NA	Water	8015B NM	59345
880-16443-2	MW-2	Total/NA	Water	8015B NM	59345
MB 860-59345/1-A	Method Blank	Total/NA	Water	8015B NM	59345
LCS 860-59345/2-A	Lab Control Sample	Total/NA	Water	8015B NM	59345
LCSD 860-59345/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	59345

Prep Batch: 59345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16443-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-16443-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-59345/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-59345/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-59345/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 59566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16443-1	MW-1	Total/NA	Water	8015 NM	
880-16443-2	MW-2	Total/NA	Water	8015 NM	

HPLC/IC

Analysis Batch: 59187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16443-1	MW-1	Total/NA	Water	300.0	
880-16443-2	MW-2	Total/NA	Water	300.0	
MB 860-59187/3	Method Blank	Total/NA	Water	300.0	
LCS 860-59187/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-59187/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-59187/5	Lab Control Sample	Total/NA	Water	300.0	
880-16443-1 MS	MW-1	Total/NA	Water	300.0	
880-16443-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 59188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16443-1	MW-1	Total/NA	Water	300.0	
880-16443-2	MW-2	Total/NA	Water	300.0	
MB 860-59188/3	Method Blank	Total/NA	Water	300.0	
LCS 860-59188/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-59188/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-59188/4	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-16443-1

General Chemistry

Analysis Batch: 59363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16443-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-16443-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 59371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16443-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-16443-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-59371/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-59371/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-59371/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-16443-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-16443-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 59708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16443-1	MW-1	Total/NA	Water	SM 2320B	
MB 860-59708/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-59708/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-59708/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 59852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16443-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-59852/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-59852/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-59852/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 59902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16443-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-16443-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-16443-1

Client Sample ID: MW-1

Date Collected: 06/29/22 11:15

Date Received: 06/29/22 14:53

Lab Sample ID: 880-16443-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	59326	07/01/22 02:51	A1S	XEN STF
Total/NA	Analysis	8015 NM		1	59566	07/01/22 18:59	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			59345	06/30/22 16:47	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	59247	06/30/22 21:32	T1S	XEN STF
Total/NA	Analysis	300.0		1	59187	06/30/22 15:53	W1N	XEN STF
Total/NA	Analysis	300.0		1	59188	06/30/22 15:53	W1N	XEN STF
Total/NA	Analysis	SM 2320B		1	59708	07/02/22 15:00	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	59902	07/06/22 13:15	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	59363	06/30/22 17:13	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	59371	06/30/22 17:54	YGG	XEN STF

Client Sample ID: MW-2

Date Collected: 06/29/22 12:05

Date Received: 06/29/22 14:53

Lab Sample ID: 880-16443-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	59326	07/01/22 03:12	A1S	XEN STF
Total/NA	Analysis	8015 NM		1	59566	07/01/22 18:59	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			59345	06/30/22 16:47	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	59247	06/30/22 21:52	T1S	XEN STF
Total/NA	Analysis	300.0		1	59187	06/30/22 16:59	W1N	XEN STF
Total/NA	Analysis	300.0		1	59188	06/30/22 16:59	W1N	XEN STF
Total/NA	Analysis	SM 2320B		1	59852	07/05/22 16:47	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	59902	07/06/22 13:15	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	59363	06/30/22 17:15	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	59371	06/30/22 17:55	YGG	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-16443-1

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	T104704215-22-46	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: 880-16443-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
SM 4500 S2 F	Sulfide, Total	SM	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Aq Prep	Microextraction	SW846	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

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

Job ID: 880-16443-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16443-1	MW-1	Water	06/29/22 11:15	06/29/22 14:53
880-16443-2	MW-2	Water	06/29/22 12:05	06/29/22 14:53

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



Hobbs NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-988-4444) 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) 555-3443 Lubbock, TX (806) 794-1296

Chain of Custody

Wor



880-16443 Chain of Custody

Project Manager:	Beaux Jennings		Bill to: (if different)	
Company Name:	Ensolum LLC		Company Name:	
Address:	705 W Wadley #210		Address:	
City, State ZIP:	Midland TX		City, State ZIP:	
Phone:	432-230-3344		Email:	bennings@ensolum.com

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

Project Name:	South Hobbs	Turn Around	ANALYSIS REQUEST							Work Order Notes
Project Number:	03B1417002	Routine ☐								
P.O. Number:	03B1417002	Rush 24 Hr								
Sample's Name:	Shane Diller	Due Date								
			500 CO2 c							
			6.2							
			00							

SAMPLE RECEIPT				Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	-81.6			Thermometer ID					
Received Intact:	(Yes) No			T28					
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:		-0.2			
Sample Custody Seals:	Yes	No	N/A	Total Containers:					

Number of Containers

Reduced Carbon Dioxide 48

Reduced Sulfide SW-846 #37

SW-846 #8260

SW-846 Method #8015

SW-846 Method #846 30

SW-846 Method 150.1

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

[illegible]

Total	200.7 / 6010	200.8 / 6020:	Circle Method(s) and Metal(s) to be analyzed																											
8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
			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
<i>[Signature]</i>	<i>[Signature]</i>	10/29/20			
		14:53			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-16443-1

Login Number: 16443

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: 880-16443-1

Login Number: 16443

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 06/30/22 11:37 AM

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



ANALYTICAL REPORT

June 08, 2022

Ensolum, LLC

Sample Delivery Group: L1501024

Samples Received: 06/03/2022

Project Number: 03B1417001

Description: Levey Well

Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

Entire Report Reviewed By:

A blue ink signature of Mark W. Beasley.

Mark W. Beasley
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

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TRRP form R	6	
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		¹⁰ Sc

LEVEY WELL L1501024-01 Air

Collected by
Shane Diller

Collected date/time
06/01/22 14:05

Received date/time
06/03/22 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1874296	400	06/05/22 01:14	06/05/22 01:14	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1875024	8000	06/06/22 19:11	06/06/22 19:11	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1875461	40000	06/07/22 15:22	06/07/22 15:22	DAH	Mt. Juliet, TN

¹Cp

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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.



Mark W. Beasley
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.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 06/08/2022 11:17					
Project Name: Levey Well		Laboratory Job Number: L1501024-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1874296, WG1875024 and WG1875461					
# 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: 06/08/2022 11:17					
Project Name: Levey Well		Laboratory Job Number: L1501024-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1874296, WG1875024 and WG1875461					
# 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: 06/08/2022 11:17	
Project Name: Levey Well		Laboratory Job Number: L1501024-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1874296, WG1875024 and WG1875461	
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: 06/01/22 14:05

L1501024

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	500	1190	3490	8290		400	WG1874296
Allyl chloride	107-05-1	76.53	80.0	250	ND	ND		400	WG1874296
Benzene	71-43-2	78.10	80.0	256	ND	ND		400	WG1874296
Benzyl Chloride	100-44-7	127	80.0	416	ND	ND		400	WG1874296
Bromodichloromethane	75-27-4	164	80.0	537	ND	ND		400	WG1874296
Bromoform	75-25-2	253	240	2480	ND	ND		400	WG1874296
Bromomethane	74-83-9	94.90	80.0	311	ND	ND		400	WG1874296
1,3-Butadiene	106-99-0	54.10	800	1770	ND	ND		400	WG1874296
Carbon disulfide	75-15-0	76.10	80.0	249	ND	ND		400	WG1874296
Carbon tetrachloride	56-23-5	154	80.0	504	ND	ND		400	WG1874296
Chlorobenzene	108-90-7	113	80.0	370	ND	ND		400	WG1874296
Chloroethane	75-00-3	64.50	80.0	211	ND	ND		400	WG1874296
Chloroform	67-66-3	119	80.0	389	ND	ND		400	WG1874296
Chloromethane	74-87-3	50.50	80.0	165	ND	ND		400	WG1874296
2-Chlorotoluene	95-49-8	126	80.0	412	ND	ND		400	WG1874296
Cyclohexane	110-82-7	84.20	1600	5510	129000	444000		8000	WG1875024
Dibromochloromethane	124-48-1	208	80.0	681	ND	ND		400	WG1874296
1,2-Dibromoethane	106-93-4	188	80.0	615	ND	ND		400	WG1874296
1,2-Dichlorobenzene	95-50-1	147	80.0	481	ND	ND		400	WG1874296
1,3-Dichlorobenzene	541-73-1	147	80.0	481	ND	ND		400	WG1874296
1,4-Dichlorobenzene	106-46-7	147	80.0	481	ND	ND		400	WG1874296
1,2-Dichloroethane	107-06-2	99	80.0	324	ND	ND		400	WG1874296
1,1-Dichloroethane	75-34-3	98	80.0	321	ND	ND		400	WG1874296
1,1-Dichloroethene	75-35-4	96.90	80.0	317	ND	ND		400	WG1874296
cis-1,2-Dichloroethene	156-59-2	96.90	80.0	317	ND	ND		400	WG1874296
trans-1,2-Dichloroethene	156-60-5	96.90	80.0	317	ND	ND		400	WG1874296
1,2-Dichloropropane	78-87-5	113	80.0	370	ND	ND		400	WG1874296
cis-1,3-Dichloropropene	10061-01-5	111	80.0	363	ND	ND		400	WG1874296
trans-1,3-Dichloropropene	10061-02-6	111	80.0	363	ND	ND		400	WG1874296
1,4-Dioxane	123-91-1	88.10	80.0	288	ND	ND		400	WG1874296
Ethanol	64-17-5	46.10	500	943	751	1420		400	WG1874296
Ethylbenzene	100-41-4	106	80.0	347	ND	ND		400	WG1874296
4-Ethyltoluene	622-96-8	120	80.0	393	ND	ND		400	WG1874296
Trichlorofluoromethane	75-69-4	137.40	80.0	450	ND	ND		400	WG1874296
Dichlorodifluoromethane	75-71-8	120.92	80.0	396	ND	ND		400	WG1874296
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	80.0	613	ND	ND		400	WG1874296
1,2-Dichlorotetrafluoroethane	76-14-2	171	80.0	560	ND	ND		400	WG1874296
Heptane	142-82-5	100	1600	6540	155000	634000		8000	WG1875024
Hexachloro-1,3-butadiene	87-68-3	261	252	2690	ND	ND		400	WG1874296
n-Hexane	110-54-3	86.20	25200	88800	1300000	4580000		40000	WG1875461
Isopropylbenzene	98-82-8	120.20	80.0	393	ND	ND		400	WG1874296
Methylene Chloride	75-09-2	84.90	80.0	278	ND	ND		400	WG1874296
Methyl Butyl Ketone	591-78-6	100	500	2040	ND	ND		400	WG1874296
2-Butanone (MEK)	78-93-3	72.10	500	1470	2070	6100		400	WG1874296
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	500	2050	ND	ND		400	WG1874296
Methyl methacrylate	80-62-6	100.12	80.0	328	ND	ND		400	WG1874296
MTBE	1634-04-4	88.10	80.0	288	ND	ND		400	WG1874296
Naphthalene	91-20-3	128	252	1320	ND	ND		400	WG1874296
2-Propanol	67-63-0	60.10	500	1230	6060	14900		400	WG1874296
Propene	115-07-1	42.10	500	861	ND	ND		400	WG1874296
Styrene	100-42-5	104	80.0	340	ND	ND		400	WG1874296
1,1,2,2-Tetrachloroethane	79-34-5	168	80.0	550	ND	ND		400	WG1874296
Tetrachloroethylene	127-18-4	166	80.0	543	ND	ND		400	WG1874296
Tetrahydrofuran	109-99-9	72.10	80.0	236	ND	ND		400	WG1874296
Toluene	108-88-3	92.10	200	753	ND	ND		400	WG1874296
1,2,4-Trichlorobenzene	120-82-1	181	252	1870	ND	ND		400	WG1874296

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 06/01/22 14:05

L1501024

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	80.0	435	ND	ND		400	WG1874296
1,1,2-Trichloroethane	79-00-5	133	80.0	435	ND	ND		400	WG1874296
Trichloroethylene	79-01-6	131	80.0	429	ND	ND		400	WG1874296
1,2,4-Trimethylbenzene	95-63-6	120	80.0	393	ND	ND		400	WG1874296
1,3,5-Trimethylbenzene	108-67-8	120	80.0	393	ND	ND		400	WG1874296
2,2,4-Trimethylpentane	540-84-1	114.22	80.0	374	ND	ND		400	WG1874296
Vinyl chloride	75-01-4	62.50	80.0	204	ND	ND		400	WG1874296
Vinyl Bromide	593-60-2	106.95	80.0	350	ND	ND		400	WG1874296
Vinyl acetate	108-05-4	86.10	80.0	282	ND	ND		400	WG1874296
m&p-Xylene	1330-20-7	106	160	694	ND	ND		400	WG1874296
o-Xylene	95-47-6	106	80.0	347	ND	ND		400	WG1874296
TPH (GC/MS) Low Fraction	8006-61-9	101	1600000	6610000	5480000	22600000		8000	WG1875024
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG1874296
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG1875024
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		93.8				WG1875461

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3799523-3 06/04/22 06:32

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	1.25
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

L1501024-01

Method Blank (MB)

(MB) R3799523-3 06/04/22 06:32

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	0.236	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	0.120	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	96.5			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3799523-1 06/04/22 05:09 • (LCSD) R3799523-2 06/04/22 05:51

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	3.93	3.95	105	105	70.0-130			0.508	25
Allyl Chloride	3.75	3.65	4.10	97.3	109	70.0-130			11.6	25
Benzene	3.75	3.79	3.83	101	102	70.0-130			1.05	25
Benzyl Chloride	3.75	3.81	3.81	102	102	70.0-152			0.000	25
Bromodichloromethane	3.75	3.82	3.79	102	101	70.0-130			0.788	25
Bromoform	3.75	3.71	3.73	98.9	99.5	70.0-130			0.538	25
Bromomethane	3.75	3.99	3.64	106	97.1	70.0-130			9.17	25
1,3-Butadiene	3.75	3.98	3.95	106	105	70.0-130			0.757	25

Volatile Organic Compounds (MS) by Method TO-15

L1501024-01

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

(LCS) R3799523-1 06/04/22 05:09 • (LCSD) R3799523-2 06/04/22 05:51

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Carbon disulfide	3.75	3.76	3.88	100	103	70.0-130			3.14	25
Carbon tetrachloride	3.75	3.79	3.74	101	99.7	70.0-130			1.33	25
Chlorobenzene	3.75	3.81	3.79	102	101	70.0-130			0.526	25
Chloroethane	3.75	3.90	3.74	104	99.7	70.0-130			4.19	25
Chloroform	3.75	3.86	3.85	103	103	70.0-130			0.259	25
Chloromethane	3.75	3.94	3.88	105	103	70.0-130			1.53	25
2-Chlorotoluene	3.75	3.79	3.71	101	98.9	70.0-130			2.13	25
Dibromochloromethane	3.75	3.69	3.71	98.4	98.9	70.0-130			0.541	25
1,2-Dibromoethane	3.75	3.84	3.77	102	101	70.0-130			1.84	25
1,2-Dichlorobenzene	3.75	3.66	3.60	97.6	96.0	70.0-130			1.65	25
1,3-Dichlorobenzene	3.75	3.69	3.60	98.4	96.0	70.0-130			2.47	25
1,4-Dichlorobenzene	3.75	3.72	3.64	99.2	97.1	70.0-130			2.17	25
1,2-Dichloroethane	3.75	3.75	3.82	100	102	70.0-130			1.85	25
1,1-Dichloroethane	3.75	3.99	3.95	106	105	70.0-130			1.01	25
1,1-Dichloroethene	3.75	3.94	3.94	105	105	70.0-130			0.000	25
cis-1,2-Dichloroethene	3.75	4.06	4.01	108	107	70.0-130			1.24	25
trans-1,2-Dichloroethene	3.75	3.93	4.01	105	107	70.0-130			2.02	25
1,2-Dichloropropane	3.75	3.80	3.70	101	98.7	70.0-130			2.67	25
cis-1,3-Dichloropropene	3.75	3.80	3.79	101	101	70.0-130			0.264	25
trans-1,3-Dichloropropene	3.75	3.78	3.75	101	100	70.0-130			0.797	25
1,4-Dioxane	3.75	3.71	3.73	98.9	99.5	70.0-140			0.538	25
Ethanol	3.75	3.84	3.86	102	103	55.0-148			0.519	25
Ethylbenzene	3.75	3.73	3.77	99.5	101	70.0-130			1.07	25
4-Ethyltoluene	3.75	3.86	3.76	103	100	70.0-130			2.62	25
Trichlorofluoromethane	3.75	3.77	3.86	101	103	70.0-130			2.36	25
Dichlorodifluoromethane	3.75	3.15	3.20	84.0	85.3	64.0-139			1.57	25
1,1,2-Trichlorotrifluoroethane	3.75	3.90	3.86	104	103	70.0-130			1.03	25
1,2-Dichlorotetrafluoroethane	3.75	3.86	4.03	103	107	70.0-130			4.31	25
Hexachloro-1,3-butadiene	3.75	3.73	3.65	99.5	97.3	70.0-151			2.17	25
Isopropylbenzene	3.75	3.88	3.77	103	101	70.0-130			2.88	25
Methylene Chloride	3.75	3.65	3.72	97.3	99.2	70.0-130			1.90	25
Methyl Butyl Ketone	3.75	4.05	4.00	108	107	70.0-149			1.24	25
Methyl Ethyl Ketone	3.75	3.91	3.92	104	105	70.0-130			0.255	25
4-Methyl-2-pentanone (MIBK)	3.75	3.89	4.02	104	107	70.0-139			3.29	25
Methyl Methacrylate	3.75	3.73	3.92	99.5	105	70.0-130			4.97	25
MTBE	3.75	3.85	3.83	103	102	70.0-130			0.521	25
Naphthalene	3.75	4.07	3.96	109	106	70.0-159			2.74	25
2-Propanol	3.75	4.01	3.88	107	103	70.0-139			3.30	25
Propene	3.75	3.90	4.07	104	109	64.0-144			4.27	25
Styrene	3.75	3.84	3.80	102	101	70.0-130			1.05	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3799523-1 06/04/22 05:09 • (LCSD) R3799523-2 06/04/22 05:51

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 %
1,1,2,2-Tetrachloroethane	3.75	3.89	3.82	104	102	70.0-130			1.82	25
Tetrachloroethylene	3.75	3.72	3.71	99.2	98.9	70.0-130			0.269	25
Tetrahydrofuran	3.75	3.98	3.99	106	106	70.0-137			0.251	25
Toluene	3.75	3.78	3.77	101	101	70.0-130			0.265	25
1,2,4-Trichlorobenzene	3.75	3.86	3.93	103	105	70.0-160			1.80	25
1,1,1-Trichloroethane	3.75	3.73	3.77	99.5	101	70.0-130			1.07	25
1,1,2-Trichloroethane	3.75	3.82	3.89	102	104	70.0-130			1.82	25
Trichloroethylene	3.75	3.94	3.99	105	106	70.0-130			1.26	25
1,2,4-Trimethylbenzene	3.75	3.88	3.83	103	102	70.0-130			1.30	25
1,3,5-Trimethylbenzene	3.75	3.91	3.81	104	102	70.0-130			2.59	25
2,2,4-Trimethylpentane	3.75	3.92	4.00	105	107	70.0-130			2.02	25
Vinyl chloride	3.75	4.08	4.13	109	110	70.0-130			1.22	25
Vinyl Bromide	3.75	4.05	3.93	108	105	70.0-130			3.01	25
Vinyl acetate	3.75	3.97	4.15	106	111	70.0-130			4.43	25
m&p-Xylene	7.50	7.70	7.51	103	100	70.0-130			2.50	25
o-Xylene	3.75	3.91	3.79	104	101	70.0-130			3.12	25
(S) 1,4-Bromofluorobenzene				101	97.9	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1501024-01

Method Blank (MB)

(MB) R3800099-2 06/06/22 10:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	99.6			60.0-140

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

(LCS) R3800099-1 06/06/22 10:11 • (LCSD) R3800099-3 06/06/22 12:07

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	4.08	3.83	109	102	70.0-130			6.32	25
Heptane	3.75	4.79	4.51	128	120	70.0-130			6.02	25
TPH (GC/MS) Low Fraction	203	216	207	106	102	70.0-130			4.26	25
(S) 1,4-Bromofluorobenzene				103	103	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3800343-3 06/07/22 09:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	94.0			60.0-140

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

(LCS) R3800343-1 06/07/22 08:47 • (LCSD) R3800343-2 06/07/22 09:20

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	3.85	3.91	103	104	70.0-130			1.55	25
(S) 1,4-Bromofluorobenzene				96.2	96.8	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

JThe identification of the analyte is acceptable; the reported value is an estimate.

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.

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

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 ____ of ____			
Report to: Beaux Jennings				Email To: bjennings@ensolum.com																 12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf			
Project Description: Levey Well				City/State Collected: Hobbs NM				Please Circle: PT MT CT ET												SDG # 41501024 4A 05 L Acctnum: ENSOLUMTX Template: T180734 Prelogin: P827709 PM: 134 - Mark W. Beasley PB:			
Phone: 210-219-8858				Client Project # 03B1417001				Lab Project # ENSOLUMTX-SUMMA												Shipped Via:			
Collected by (print): Shane Diller				Site/Facility ID # 03B1417001				P.O. # 03B1417001												Remarks Sample # (lab only)			
Collected by (signature): _____				Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☒ Three Day				Quote # _____												Date Results Needed			
Immediately Packed on Ice N ☒ Y _____								No. of Cntrs												TO-15 Summa			
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ANALYTICAL REPORT

June 15, 2022

Ensolum, LLC

Sample Delivery Group: L1503659
Samples Received: 06/10/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

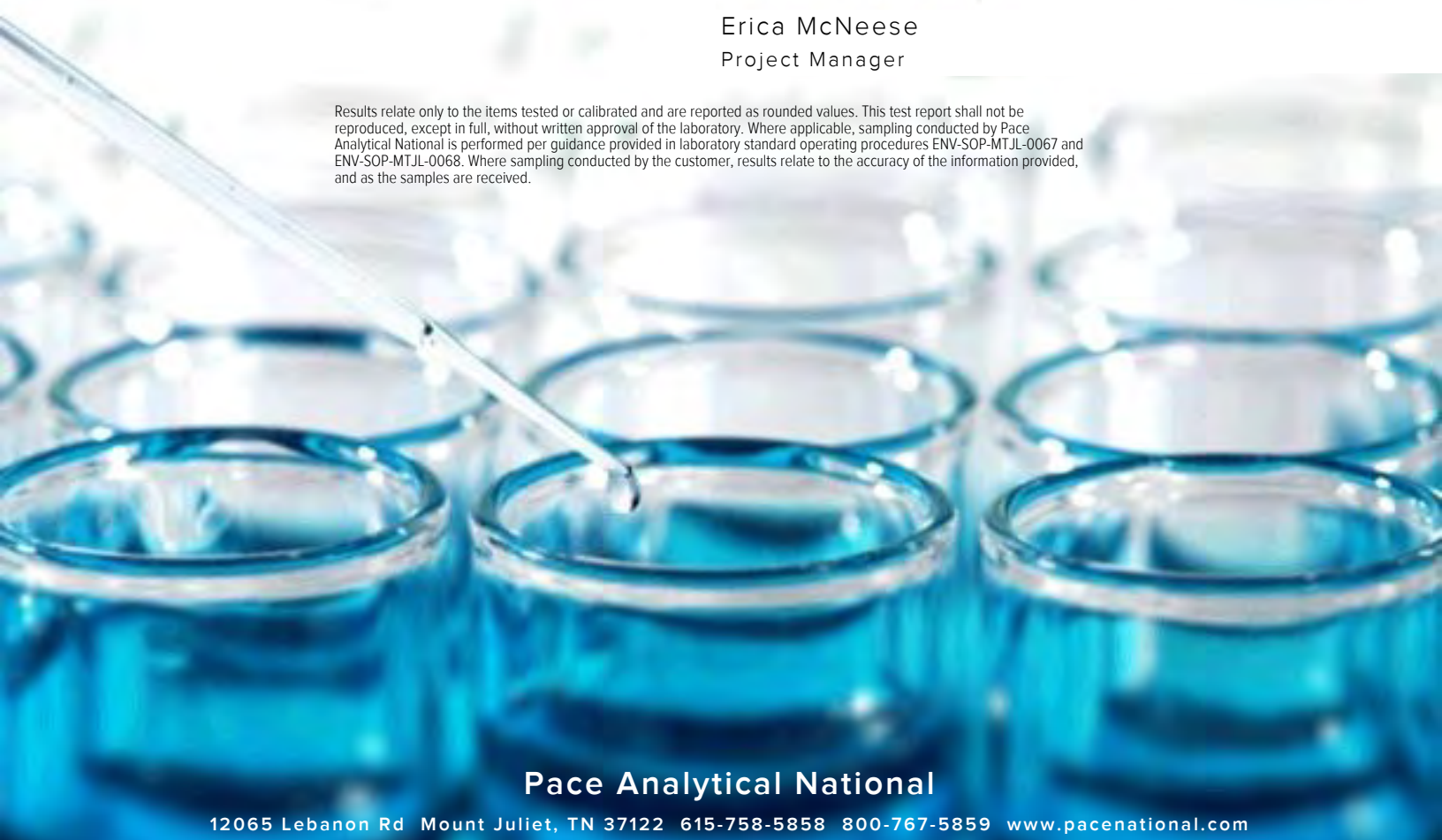


Entire Report Reviewed By:

A handwritten signature in blue ink that reads "Erica McNeese".

Erica McNeese
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 L1503659-01	9	
LEVEY WELL L1503659-02	11	
LEVEY WELL L1503659-03	13	⁷ Qc
LEVEY WELL L1503659-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	28	
Al: Accreditations & Locations	29	¹⁰ Sc
Sc: Sample Chain of Custody	30	

LEVEY WELL L1503659-01 Air

Collected by
Shane Diller

Collected date/time
06/08/22 10:33

Received date/time
06/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1879639	8000	06/15/22 14:49	06/15/22 14:49	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1879645	40000	06/15/22 15:58	06/15/22 15:58	CEP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

LEVEY WELL L1503659-02 Air

Collected by
Shane Diller

Collected date/time
06/08/22 10:58

Received date/time
06/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1877899	20	06/11/22 19:22	06/11/22 19:22	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1878538	200	06/13/22 22:21	06/13/22 22:21	CEP	Mt. Juliet, TN

LEVEY WELL L1503659-03 Air

Collected by
Shane Diller

Collected date/time
06/08/22 11:38

Received date/time
06/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1877899	1	06/11/22 18:53	06/11/22 18:53	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1878538	20	06/13/22 19:15	06/13/22 19:15	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1879020	200	06/14/22 17:35	06/14/22 17:35	CEP	Mt. Juliet, TN

LEVEY WELL L1503659-04 Air

Collected by
Shane Diller

Collected date/time
06/08/22 13:00

Received date/time
06/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1877899	20	06/11/22 19:51	06/11/22 19:51	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1878538	500	06/13/22 22:50	06/13/22 22:50	CEP	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.



Erica McNeese
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.



Erica McNeese
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 06/15/2022 16:49					
Project Name: Levey Well		Laboratory Job Number: L1503659-01, 02, 03 and 04					
Reviewer Name: Erica McNeese		Prep Batch Number(s): WG1877899, WG1878538, WG1879020, WG1879645 and WG1879639					
# 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			1
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: 06/15/2022 16:49					
Project Name: Levey Well		Laboratory Job Number: L1503659-01, 02, 03 and 04					
Reviewer Name: Erica McNeese		Prep Batch Number(s): WG1877899, WG1878538, WG1879020, WG1879645 and WG1879639					
# 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: 06/15/2022 16:49	
Project Name: Levey Well		Laboratory Job Number: L1503659-01, 02, 03 and 04	
Reviewer Name: Erica McNeese		Prep Batch Number(s): WG1877899, WG1878538, WG1879020, WG1879645 and WG1879639	
ER # ¹	Description		
1	TO-15 WG1877899 Naphthalene L1503659-03: Concentration in the Blank >MQL.		
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: 06/08/22 10:33

L1503659

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	10000	23800	ND	ND		8000	WG1879639
Allyl chloride	107-05-1	76.53	1600	5010	ND	ND		8000	WG1879639
Benzene	71-43-2	78.10	1600	5110	ND	ND		8000	WG1879639
Benzyl Chloride	100-44-7	127	1600	8310	ND	ND		8000	WG1879639
Bromodichloromethane	75-27-4	164	1600	10700	ND	ND		8000	WG1879639
Bromoform	75-25-2	253	4800	49700	ND	ND		8000	WG1879639
Bromomethane	74-83-9	94.90	1600	6210	ND	ND		8000	WG1879639
1,3-Butadiene	106-99-0	54.10	16000	35400	ND	ND		8000	WG1879639
Carbon disulfide	75-15-0	76.10	1600	4980	ND	ND		8000	WG1879639
Carbon tetrachloride	56-23-5	154	1600	10100	ND	ND		8000	WG1879639
Chlorobenzene	108-90-7	113	1600	7390	ND	ND		8000	WG1879639
Chloroethane	75-00-3	64.50	1600	4220	ND	ND		8000	WG1879639
Chloroform	67-66-3	119	1600	7790	ND	ND		8000	WG1879639
Chloromethane	74-87-3	50.50	1600	3300	ND	ND		8000	WG1879639
2-Chlorotoluene	95-49-8	126	1600	8250	ND	ND		8000	WG1879639
Cyclohexane	110-82-7	84.20	1600	5510	67200	231000		8000	WG1879639
Dibromochloromethane	124-48-1	208	1600	13600	ND	ND		8000	WG1879639
1,2-Dibromoethane	106-93-4	188	1600	12300	ND	ND		8000	WG1879639
1,2-Dichlorobenzene	95-50-1	147	1600	9620	ND	ND		8000	WG1879639
1,3-Dichlorobenzene	541-73-1	147	1600	9620	ND	ND		8000	WG1879639
1,4-Dichlorobenzene	106-46-7	147	1600	9620	ND	ND		8000	WG1879639
1,2-Dichloroethane	107-06-2	99	1600	6480	ND	ND		8000	WG1879639
1,1-Dichloroethane	75-34-3	98	1600	6410	ND	ND		8000	WG1879639
1,1-Dichloroethene	75-35-4	96.90	1600	6340	ND	ND		8000	WG1879639
cis-1,2-Dichloroethene	156-59-2	96.90	1600	6340	ND	ND		8000	WG1879639
trans-1,2-Dichloroethene	156-60-5	96.90	1600	6340	ND	ND		8000	WG1879639
1,2-Dichloropropane	78-87-5	113	1600	7390	ND	ND		8000	WG1879639
cis-1,3-Dichloropropene	10061-01-5	111	1600	7260	ND	ND		8000	WG1879639
trans-1,3-Dichloropropene	10061-02-6	111	1600	7260	ND	ND		8000	WG1879639
1,4-Dioxane	123-91-1	88.10	1600	5770	ND	ND		8000	WG1879639
Ethanol	64-17-5	46.10	10000	18900	15300	28800		8000	WG1879639
Ethylbenzene	100-41-4	106	1600	6940	ND	ND		8000	WG1879639
4-Ethyltoluene	622-96-8	120	1600	7850	ND	ND		8000	WG1879639
Trichlorofluoromethane	75-69-4	137.40	1600	8990	ND	ND		8000	WG1879639
Dichlorodifluoromethane	75-71-8	120.92	1600	7910	ND	ND		8000	WG1879639
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1600	12300	ND	ND		8000	WG1879639
1,2-Dichlorotetrafluoroethane	76-14-2	171	1600	11200	ND	ND		8000	WG1879639
Heptane	142-82-5	100	1600	6540	115000	470000		8000	WG1879639
Hexachloro-1,3-butadiene	87-68-3	261	5040	53800	ND	ND		8000	WG1879639
n-Hexane	110-54-3	86.20	25200	88800	1050000	3700000		40000	WG1879645
Isopropylbenzene	98-82-8	120.20	1600	7870	ND	ND		8000	WG1879639
Methylene Chloride	75-09-2	84.90	1600	5560	ND	ND		8000	WG1879639
Methyl Butyl Ketone	591-78-6	100	10000	40900	ND	ND		8000	WG1879639
2-Butanone (MEK)	78-93-3	72.10	10000	29500	ND	ND		8000	WG1879639
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	10000	40900	ND	ND		8000	WG1879639
Methyl methacrylate	80-62-6	100.12	1600	6550	4540	18600		8000	WG1879639
MTBE	1634-04-4	88.10	1600	5770	ND	ND		8000	WG1879639
Naphthalene	91-20-3	128	5040	26400	ND	ND		8000	WG1879639
2-Propanol	67-63-0	60.10	10000	24600	216000	531000		8000	WG1879639
Propene	115-07-1	42.10	10000	17200	ND	ND		8000	WG1879639
Styrene	100-42-5	104	1600	6810	ND	ND		8000	WG1879639
1,1,2,2-Tetrachloroethane	79-34-5	168	1600	11000	ND	ND		8000	WG1879639
Tetrachloroethylene	127-18-4	166	1600	10900	ND	ND		8000	WG1879639
Tetrahydrofuran	109-99-9	72.10	1600	4720	ND	ND		8000	WG1879639
Toluene	108-88-3	92.10	4000	15100	ND	ND		8000	WG1879639
1,2,4-Trichlorobenzene	120-82-1	181	5040	37300	ND	ND		8000	WG1879639

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 06/08/22 10:33

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	1600	8700	ND	ND		8000	WG1879639
1,1,2-Trichloroethane	79-00-5	133	1600	8700	ND	ND		8000	WG1879639
Trichloroethylene	79-01-6	131	1600	8570	ND	ND		8000	WG1879639
1,2,4-Trimethylbenzene	95-63-6	120	1600	7850	ND	ND		8000	WG1879639
1,3,5-Trimethylbenzene	108-67-8	120	1600	7850	ND	ND		8000	WG1879639
2,2,4-Trimethylpentane	540-84-1	114.22	1600	7470	ND	ND		8000	WG1879639
Vinyl chloride	75-01-4	62.50	1600	4090	ND	ND		8000	WG1879639
Vinyl Bromide	593-60-2	106.95	1600	7000	ND	ND		8000	WG1879639
Vinyl acetate	108-05-4	86.10	1600	5630	ND	ND		8000	WG1879639
m&p-Xylene	1330-20-7	106	3200	13900	ND	ND		8000	WG1879639
o-Xylene	95-47-6	106	1600	6940	ND	ND		8000	WG1879639
TPH (GC/MS) Low Fraction	8006-61-9	101	1600000	6610000	3860000	15900000	B	8000	WG1879639
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.5				WG1879639
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.8				WG1879645

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 06/08/22 10:58

L1503659

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	25.0	59.4	ND	ND		20	WG1877899
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1877899
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1877899
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1877899
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1877899
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1877899
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1877899
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1877899
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1877899
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1877899
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1877899
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1877899
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1877899
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1877899
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1877899
Cyclohexane	110-82-7	84.20	4.00	13.8	1260	4340		20	WG1877899
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1877899
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1877899
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1877899
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1877899
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1877899
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1877899
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1877899
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1877899
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1877899
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1877899
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1877899
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1877899
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1877899
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1877899
Ethanol	64-17-5	46.10	25.0	47.1	32.3	60.9		20	WG1877899
Ethylbenzene	100-41-4	106	4.00	17.3	7.11	30.8		20	WG1877899
4-Ethyltoluene	622-96-8	120	4.00	19.6	11.5	56.4		20	WG1877899
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1877899
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1877899
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1877899
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1877899
Heptane	142-82-5	100	40.0	164	3240	13300		200	WG1878538
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1877899
n-Hexane	110-54-3	86.20	126	444	9340	32900		200	WG1878538
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1877899
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1877899
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1877899
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	32.9	97.0		20	WG1877899
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1877899
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1877899
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1877899
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1877899
2-Propanol	67-63-0	60.10	25.0	61.5	67.5	166		20	WG1877899
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1877899
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1877899
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1877899
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1877899
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1877899
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1877899
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1877899

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 06/08/22 10:58

L1503659

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	ND	ND		20	WG1877899
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1877899
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1877899
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	14.4	70.7		20	WG1877899
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	27.6	135		20	WG1877899
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1877899
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1877899
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1877899
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1877899
m&p-Xylene	1330-20-7	106	8.00	34.7	8.74	37.9		20	WG1877899
o-Xylene	95-47-6	106	4.00	17.3	7.13	30.9		20	WG1877899
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	53300	220000		20	WG1877899
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		103				WG1877899
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.3				WG1878538

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 06/08/22 11:38

L1503659

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG1877899
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1877899
Benzene	71-43-2	78.10	0.200	0.639	0.680	2.17		1	WG1877899
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1877899
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1877899
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1877899
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1877899
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1877899
Carbon disulfide	75-15-0	76.10	0.200	0.622	3.10	9.65		1	WG1877899
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1877899
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1877899
Chloroethane	75-00-3	64.50	0.200	0.528	0.274	0.723		1	WG1877899
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1877899
Chloromethane	74-87-3	50.50	0.200	0.413	0.871	1.80		1	WG1877899
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1877899
Cyclohexane	110-82-7	84.20	4.00	13.8	404	1390		20	WG1878538
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1877899
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1877899
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1877899
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1877899
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1877899
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1877899
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1877899
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1877899
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1877899
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1877899
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1877899
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1877899
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1877899
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1877899
Ethanol	64-17-5	46.10	1.25	2.36	16.8	31.7		1	WG1877899
Ethylbenzene	100-41-4	106	0.200	0.867	2.63	11.4		1	WG1877899
4-Ethyltoluene	622-96-8	120	0.200	0.982	5.87	28.8		1	WG1877899
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.234	1.31		1	WG1877899
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.479	2.37		1	WG1877899
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1877899
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1877899
Heptane	142-82-5	100	4.00	16.4	1130	4620		20	WG1878538
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1877899
n-Hexane	110-54-3	86.20	126	444	257	906		200	WG1879020
Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.784	3.85		1	WG1877899
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1877899
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1877899
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	18.1	53.4		1	WG1877899
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1877899
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1877899
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1877899
Naphthalene	91-20-3	128	0.630	3.30	0.850	4.45	B	1	WG1877899
2-Propanol	67-63-0	60.10	1.25	3.07	29.5	72.5		1	WG1877899
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1877899
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1877899
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1877899
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.279	1.89		1	WG1877899
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1877899
Toluene	108-88-3	92.10	0.500	1.88	3.46	13.0		1	WG1877899
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1877899

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 06/08/22 11:38

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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	0.200	1.09	ND	ND		1	WG1877899
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1877899
Trichloroethylene	79-01-6	131	0.200	1.07	0.726	3.89	B	1	WG1877899
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	7.38	36.2		1	WG1877899
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	12.3	60.4		1	WG1877899
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1877899
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1877899
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1877899
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1877899
m&p-Xylene	1330-20-7	106	0.400	1.73	3.76	16.3		1	WG1877899
o-Xylene	95-47-6	106	0.200	0.867	2.88	12.5		1	WG1877899
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	23900	98700		20	WG1878538
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		130				WG1877899
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.3				WG1878538
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.7				WG1879020

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

Collected date/time: 06/08/22 13:00

L1503659

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	25.0	59.4	ND	ND		20	WG1877899
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1877899
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1877899
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1877899
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1877899
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1877899
Bromomethane	74-83-9	94.90	4.00	15.5	4.50	17.5		20	WG1877899
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1877899
Carbon disulfide	75-15-0	76.10	4.00	12.4	9.72	30.3		20	WG1877899
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1877899
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1877899
Chloroethane	75-00-3	64.50	4.00	10.6	12.3	32.4		20	WG1877899
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1877899
Chloromethane	74-87-3	50.50	4.00	8.26	22.0	45.4		20	WG1877899
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1877899
Cyclohexane	110-82-7	84.20	100	344	4140	14300		500	WG1878538
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1877899
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1877899
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1877899
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1877899
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1877899
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1877899
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1877899
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1877899
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1877899
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1877899
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1877899
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1877899
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1877899
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1877899
Ethanol	64-17-5	46.10	25.0	47.1	44.5	83.9		20	WG1877899
Ethylbenzene	100-41-4	106	4.00	17.3	5.63	24.4		20	WG1877899
4-Ethyltoluene	622-96-8	120	4.00	19.6	7.10	34.8		20	WG1877899
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1877899
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1877899
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1877899
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1877899
Heptane	142-82-5	100	100	409	11000	45000		500	WG1878538
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1877899
n-Hexane	110-54-3	86.20	315	1110	38400	135000		500	WG1878538
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1877899
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1877899
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1877899
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	334	985		20	WG1877899
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1877899
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1877899
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1877899
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1877899
2-Propanol	67-63-0	60.10	25.0	61.5	327	804		20	WG1877899
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1877899
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1877899
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1877899
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1877899
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1877899
Toluene	108-88-3	92.10	10.0	37.7	10.8	40.7		20	WG1877899
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1877899

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 06/08/22 13:00

L1503659

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	ND	ND		20	WG1877899
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1877899
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1877899
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	8.81	43.2		20	WG1877899
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	17.1	83.9		20	WG1877899
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1877899
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1877899
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1877899
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1877899
m&p-Xylene	1330-20-7	106	8.00	34.7	8.14	35.3		20	WG1877899
o-Xylene	95-47-6	106	4.00	17.3	6.41	27.8		20	WG1877899
TPH (GC/MS) Low Fraction	8006-61-9	101	100000	413000	248000	1020000		500	WG1878538
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG1877899
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.0				WG1878538

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3802213-3 06/11/22 05:28

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	U		0.265	1.25
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	0.105	U	0.0979	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1503659-02.03.04

Method Blank (MB)

(MB) R3802213-3 06/11/22 05:28

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	0.668		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.152	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	0.263	U	0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	0.0790	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	59.9	U	39.7	200
(S) 1,4-Bromofluorobenzene	96.3			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3802213-1 06/11/22 04:25 • (LCSD) R3802213-2 06/11/22 04:57

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.09	4.08	109	109	70.0-130			0.245	25
Allyl Chloride	3.75	4.12	4.18	110	111	70.0-130			1.45	25
Benzene	3.75	3.88	3.91	103	104	70.0-130			0.770	25
Benzyl Chloride	3.75	4.39	4.42	117	118	70.0-152			0.681	25
Bromodichloromethane	3.75	3.95	4.01	105	107	70.0-130			1.51	25
Bromoform	3.75	4.06	4.09	108	109	70.0-130			0.736	25

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

(LCS) R3802213-1 06/11/22 04:25 • (LCSD) R3802213-2 06/11/22 04:57

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	3.75	3.96	4.02	106	107	70.0-130			1.50	25
1,3-Butadiene	3.75	3.99	3.89	106	104	70.0-130			2.54	25
Carbon disulfide	3.75	4.16	4.15	111	111	70.0-130			0.241	25
Carbon tetrachloride	3.75	3.95	4.01	105	107	70.0-130			1.51	25
Chlorobenzene	3.75	4.07	4.09	109	109	70.0-130			0.490	25
Chloroethane	3.75	4.00	4.00	107	107	70.0-130			0.000	25
Chloroform	3.75	3.96	4.01	106	107	70.0-130			1.25	25
Chloromethane	3.75	3.92	3.99	105	106	70.0-130			1.77	25
2-Chlorotoluene	3.75	4.25	4.22	113	113	70.0-130			0.708	25
Cyclohexane	3.75	3.78	3.82	101	102	70.0-130			1.05	25
Dibromochloromethane	3.75	3.96	3.99	106	106	70.0-130			0.755	25
1,2-Dibromoethane	3.75	4.03	4.05	107	108	70.0-130			0.495	25
1,2-Dichlorobenzene	3.75	4.20	4.23	112	113	70.0-130			0.712	25
1,3-Dichlorobenzene	3.75	4.30	4.34	115	116	70.0-130			0.926	25
1,4-Dichlorobenzene	3.75	4.34	4.39	116	117	70.0-130			1.15	25
1,2-Dichloroethane	3.75	3.91	3.95	104	105	70.0-130			1.02	25
1,1-Dichloroethane	3.75	3.89	3.92	104	105	70.0-130			0.768	25
1,1-Dichloroethene	3.75	4.11	4.14	110	110	70.0-130			0.727	25
cis-1,2-Dichloroethene	3.75	3.89	3.94	104	105	70.0-130			1.28	25
trans-1,2-Dichloroethene	3.75	4.11	4.05	110	108	70.0-130			1.47	25
1,2-Dichloropropane	3.75	3.91	3.93	104	105	70.0-130			0.510	25
cis-1,3-Dichloropropene	3.75	3.93	3.90	105	104	70.0-130			0.766	25
trans-1,3-Dichloropropene	3.75	4.05	4.04	108	108	70.0-130			0.247	25
1,4-Dioxane	3.75	3.85	3.87	103	103	70.0-140			0.518	25
Ethanol	3.75	3.99	3.95	106	105	55.0-148			1.01	25
Ethylbenzene	3.75	4.08	4.09	109	109	70.0-130			0.245	25
4-Ethyltoluene	3.75	4.26	4.25	114	113	70.0-130			0.235	25
Trichlorofluoromethane	3.75	4.09	4.10	109	109	70.0-130			0.244	25
Dichlorodifluoromethane	3.75	4.30	4.22	115	113	64.0-139			1.88	25
1,1,2-Trichlorotrifluoroethane	3.75	4.13	4.13	110	110	70.0-130			0.000	25
1,2-Dichlorotetrafluoroethane	3.75	4.05	4.06	108	108	70.0-130			0.247	25
Hexachloro-1,3-butadiene	3.75	4.09	4.12	109	110	70.0-151			0.731	25
Isopropylbenzene	3.75	4.25	4.23	113	113	70.0-130			0.472	25
Methylene Chloride	3.75	3.78	3.77	101	101	70.0-130			0.265	25
Methyl Butyl Ketone	3.75	3.92	3.92	105	105	70.0-149			0.000	25
Methyl Ethyl Ketone	3.75	3.84	3.91	102	104	70.0-130			1.81	25
4-Methyl-2-pentanone (MIBK)	3.75	4.13	4.13	110	110	70.0-139			0.000	25
Methyl Methacrylate	3.75	3.88	3.89	103	104	70.0-130			0.257	25
MTBE	3.75	3.90	3.92	104	105	70.0-130			0.512	25
Naphthalene	3.75	3.41	3.25	90.9	86.7	70.0-159			4.80	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3802213-1 06/11/22 04:25 • (LCSD) R3802213-2 06/11/22 04:57

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Propanol	3.75	4.22	4.18	113	111	70.0-139			0.952	25
Propene	3.75	3.78	3.83	101	102	64.0-144			1.31	25
Styrene	3.75	4.14	4.12	110	110	70.0-130			0.484	25
1,1,2,2-Tetrachloroethane	3.75	4.16	4.22	111	113	70.0-130			1.43	25
Tetrachloroethylene	3.75	4.07	4.05	109	108	70.0-130			0.493	25
Tetrahydrofuran	3.75	3.74	3.80	99.7	101	70.0-137			1.59	25
Toluene	3.75	3.99	4.00	106	107	70.0-130			0.250	25
1,2,4-Trichlorobenzene	3.75	3.05	2.97	81.3	79.2	70.0-160			2.66	25
1,1,1-Trichloroethane	3.75	3.88	3.96	103	106	70.0-130			2.04	25
1,1,2-Trichloroethane	3.75	3.97	3.97	106	106	70.0-130			0.000	25
Trichloroethylene	3.75	3.95	3.97	105	106	70.0-130			0.505	25
1,2,4-Trimethylbenzene	3.75	4.38	4.39	117	117	70.0-130			0.228	25
1,3,5-Trimethylbenzene	3.75	4.27	4.32	114	115	70.0-130			1.16	25
2,2,4-Trimethylpentane	3.75	4.02	4.05	107	108	70.0-130			0.743	25
Vinyl chloride	3.75	3.94	3.96	105	106	70.0-130			0.506	25
Vinyl Bromide	3.75	4.08	4.09	109	109	70.0-130			0.245	25
Vinyl acetate	3.75	3.85	3.90	103	104	70.0-130			1.29	25
m&p-Xylene	7.50	8.68	8.68	116	116	70.0-130			0.000	25
o-Xylene	3.75	4.23	4.28	113	114	70.0-130			1.18	25
TPH (GC/MS) Low Fraction	203	252	252	124	124	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				104	103	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3802535-3 06/13/22 10:24

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	93.3			60.0-140

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

(LCS) R3802535-1 06/13/22 09:18 • (LCSD) R3802535-2 06/13/22 09:54

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	4.44	4.38	118	117	70.0-130			1.36	25
Heptane	3.75	4.65	4.53	124	121	70.0-130			2.61	25
n-Hexane	3.75	4.59	4.51	122	120	70.0-130			1.76	25
TPH (GC/MS) Low Fraction	203	256	253	126	125	70.0-130			1.18	25
(S) 1,4-Bromofluorobenzene				96.5	97.6	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1503659-03

Method Blank (MB)

(MB) R3802866-3 06/14/22 09:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	94.2			60.0-140

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

(LCS) R3802866-1 06/14/22 08:29 • (LCSD) R3802866-2 06/14/22 09:03

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
n-Hexane	3.75	4.74	4.81	126	128	70.0-130			1.47	25
(S) 1,4-Bromofluorobenzene				96.7	97.7	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3803470-3 06/15/22 09:52

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	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1503659-01

Method Blank (MB)

(MB) R3803470-3 06/15/22 09:52

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	50.9	⬇	39.7	200
(S) 1,4-Bromofluorobenzene	96.1			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3803470-1 06/15/22 08:54 • (LCSD) R3803470-2 06/15/22 09:24

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	3.61	3.60	96.3	96.0	70.0-130			0.277	25
Allyl Chloride	3.75	3.70	3.61	98.7	96.3	70.0-130			2.46	25
Benzene	3.75	3.62	3.64	96.5	97.1	70.0-130			0.551	25
Benzyl Chloride	3.75	3.74	3.66	99.7	97.6	70.0-152			2.16	25
Bromodichloromethane	3.75	3.50	3.43	93.3	91.5	70.0-130			2.02	25

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

(LCS) R3803470-1 06/15/22 08:54 • (LCSD) R3803470-2 06/15/22 09:24

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	3.75	3.52	3.45	93.9	92.0	70.0-130			2.01	25
Bromomethane	3.75	3.70	3.75	98.7	100	70.0-130			1.34	25
1,3-Butadiene	3.75	3.80	3.64	101	97.1	70.0-130			4.30	25
Carbon disulfide	3.75	3.64	3.57	97.1	95.2	70.0-130			1.94	25
Carbon tetrachloride	3.75	3.52	3.47	93.9	92.5	70.0-130			1.43	25
Chlorobenzene	3.75	3.65	3.62	97.3	96.5	70.0-130			0.825	25
Chloroethane	3.75	3.55	3.59	94.7	95.7	70.0-130			1.12	25
Chloroform	3.75	3.58	3.59	95.5	95.7	70.0-130			0.279	25
Chloromethane	3.75	3.67	3.67	97.9	97.9	70.0-130			0.000	25
2-Chlorotoluene	3.75	3.82	3.82	102	102	70.0-130			0.000	25
Cyclohexane	3.75	3.68	3.73	98.1	99.5	70.0-130			1.35	25
Dibromochloromethane	3.75	3.55	3.52	94.7	93.9	70.0-130			0.849	25
1,2-Dibromoethane	3.75	3.67	3.66	97.9	97.6	70.0-130			0.273	25
1,2-Dichlorobenzene	3.75	3.74	3.75	99.7	100	70.0-130			0.267	25
1,3-Dichlorobenzene	3.75	3.84	3.80	102	101	70.0-130			1.05	25
1,4-Dichlorobenzene	3.75	3.87	3.85	103	103	70.0-130			0.518	25
1,2-Dichloroethane	3.75	3.48	3.48	92.8	92.8	70.0-130			0.000	25
1,1-Dichloroethane	3.75	3.57	3.55	95.2	94.7	70.0-130			0.562	25
1,1-Dichloroethene	3.75	3.68	3.71	98.1	98.9	70.0-130			0.812	25
cis-1,2-Dichloroethene	3.75	3.54	3.58	94.4	95.5	70.0-130			1.12	25
trans-1,2-Dichloroethene	3.75	3.73	3.74	99.5	99.7	70.0-130			0.268	25
1,2-Dichloropropane	3.75	3.51	3.47	93.6	92.5	70.0-130			1.15	25
cis-1,3-Dichloropropene	3.75	3.69	3.64	98.4	97.1	70.0-130			1.36	25
trans-1,3-Dichloropropene	3.75	3.72	3.64	99.2	97.1	70.0-130			2.17	25
1,4-Dioxane	3.75	3.69	3.73	98.4	99.5	70.0-140			1.08	25
Ethanol	3.75	3.79	3.71	101	98.9	55.0-148			2.13	25
Ethylbenzene	3.75	3.81	3.79	102	101	70.0-130			0.526	25
4-Ethyltoluene	3.75	3.95	3.90	105	104	70.0-130			1.27	25
Trichlorofluoromethane	3.75	3.75	3.70	100	98.7	70.0-130			1.34	25
Dichlorodifluoromethane	3.75	3.71	3.69	98.9	98.4	64.0-139			0.541	25
1,1,2-Trichlorotrifluoroethane	3.75	3.83	3.81	102	102	70.0-130			0.524	25
1,2-Dichlorotetrafluoroethane	3.75	3.74	3.71	99.7	98.9	70.0-130			0.805	25
Heptane	3.75	3.56	3.56	94.9	94.9	70.0-130			0.000	25
Hexachloro-1,3-butadiene	3.75	3.77	3.74	101	99.7	70.0-151			0.799	25
Isopropylbenzene	3.75	3.83	3.79	102	101	70.0-130			1.05	25
Methylene Chloride	3.75	3.47	3.39	92.5	90.4	70.0-130			2.33	25
Methyl Butyl Ketone	3.75	3.76	3.67	100	97.9	70.0-149			2.42	25
Methyl Ethyl Ketone	3.75	3.71	3.80	98.9	101	70.0-130			2.40	25
4-Methyl-2-pentanone (MIBK)	3.75	3.75	3.71	100	98.9	70.0-139			1.07	25
Methyl Methacrylate	3.75	3.75	3.66	100	97.6	70.0-130			2.43	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3803470-1 06/15/22 08:54 • (LCSD) R3803470-2 06/15/22 09:24

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	3.82	3.78	102	101	70.0-130			1.05	25
Naphthalene	3.75	4.37	4.32	117	115	70.0-159			1.15	25
2-Propanol	3.75	3.69	3.61	98.4	96.3	70.0-139			2.19	25
Propene	3.75	3.67	3.68	97.9	98.1	64.0-144			0.272	25
Styrene	3.75	3.90	3.87	104	103	70.0-130			0.772	25
1,1,2,2-Tetrachloroethane	3.75	3.75	3.69	100	98.4	70.0-130			1.61	25
Tetrachloroethylene	3.75	3.72	3.69	99.2	98.4	70.0-130			0.810	25
Tetrahydrofuran	3.75	3.62	3.49	96.5	93.1	70.0-137			3.66	25
Toluene	3.75	3.81	3.78	102	101	70.0-130			0.791	25
1,2,4-Trichlorobenzene	3.75	4.00	4.01	107	107	70.0-160			0.250	25
1,1,1-Trichloroethane	3.75	3.62	3.61	96.5	96.3	70.0-130			0.277	25
1,1,2-Trichloroethane	3.75	3.66	3.61	97.6	96.3	70.0-130			1.38	25
Trichloroethylene	3.75	3.63	3.57	96.8	95.2	70.0-130			1.67	25
1,2,4-Trimethylbenzene	3.75	4.08	4.05	109	108	70.0-130			0.738	25
1,3,5-Trimethylbenzene	3.75	3.96	3.95	106	105	70.0-130			0.253	25
2,2,4-Trimethylpentane	3.75	3.62	3.63	96.5	96.8	70.0-130			0.276	25
Vinyl chloride	3.75	3.71	3.70	98.9	98.7	70.0-130			0.270	25
Vinyl Bromide	3.75	3.67	3.63	97.9	96.8	70.0-130			1.10	25
Vinyl acetate	3.75	3.41	3.39	90.9	90.4	70.0-130			0.588	25
m&p-Xylene	7.50	7.72	7.71	103	103	70.0-130			0.130	25
o-Xylene	3.75	3.91	3.86	104	103	70.0-130			1.29	25
TPH (GC/MS) Low Fraction	203	228	227	112	112	70.0-130			0.440	25
(S) 1,4-Bromofluorobenzene				99.9	99.4	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3803427-3 06/15/22 10:06

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	96.1			60.0-140

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

(LCS) R3803427-1 06/15/22 09:05 • (LCSD) R3803427-2 06/15/22 09:36

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.39	4.39	117	117	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				103	103	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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.



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.

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Ensolum, LLC

601 Marienfeld #400
Midland, TX 79701

Billing Information:

Accounts Payable
2351 W Northwest Hwy. Ste.
1203
Dallas, TX 75220Pres
Chk

Report to:

Beaux Jennings

Email To: bjennings@ensolum.com

Project Description:

Levey Well

City/State

Collected: Hobbs NM

Please Circle:

PT MT CT ET

Phone: 210-219-8858

Client Project #

03B1417001

Lab Project #

ENSOLUMMTX-SUMMA

Collected by (print):

Shane Diller

Site/Facility ID #

03B1417001

P.O. #

03B1417001

Collected by (signature):

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☒ Three Day

Quote #

Date Results Needed

No.
of
Cnts

Immediately

Packed on Ice N ☒ Y ☐

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts
Levey Well	G	Air	-	6-8-22	1033	1
Levey Well	G	Air	-	6-8-22	1058	1
Levey Well	G	Air	-	6-8-22	1138	1
Levey Well	G	Air	-	6-8-22	1300	1
N/A 6-8-22						

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

6/8/22

Time:

1700

Received by: (Signature)

C. B.

Trip Blank Received: Yes ☒HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

6/9/22

Time:

1700

Received by: (Signature)

FedEx

Temp: Amb °C Bottles Received: 9

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

J. M.

Date: 6/10/22 Time: 0900

Hold:

Condition:

NCF 1 OK

Analysis / Container / Preservative

Chain of Custody

Page ____ of ____

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>

SDG #

H123

Acctnum: ENSOLUMMTX

Template: T180734

Prelogin: P827709

PM: 134 - Mark W. Beasley

PB:

Shipped Via:

Remarks

Sample # (lab only)

-01
-02
-03
-04

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Method: TO-15
Laboratory: Pace Analytical - National

Instrument: AIRMS2

Matrix: AIR

Date: 13-Apr-22

File: 0413_05

DCS TO-15 Study

Analyte	Result (ppbv)	Conc/TV	% Rec	MDL (ppbv)
1,1,1-Trichloroethane	0.1361405	0.13	105%	0.0736
1,1,2,2-Tetrachloroethane	0.1186862	0.13	91%	0.0743
1,1,2-Trichloroethane	0.1222253	0.13	94%	0.0775
1,1,2-Trichlorotrifluoroethane	0.1337437	0.13	103%	0.0793
1,1-Dichloroethane	0.1308999	0.13	101%	0.0723
1,1-Dichloroethene	0.1293607	0.13	100%	0.0762
1,1-DIFLUOROETHANE	0.1320696	0.13	102%	0.129
1,2,3-TRIMETHYLBENZENE	0.1508648	0.13	116%	0.0805
1,2,4-Trichlorobenzene	0.151939	0.13	117%	0.148
1,2,4-Trimethylbenzene	0.1500807	0.13	115%	0.0764
1,2-DIBROMO-3-CHLOROPROPANE	0.1319028	0.13	101%	0.0667
1,2-Dibromoethane	0.1267732	0.13	98%	0.0721
1,2-Dichlorobenzene	0.1398647	0.13	108%	0.128
1,2-Dichloroethane	0.1230177	0.13	95%	0.07
1,2-Dichloropropane	0.1338964	0.13	103%	0.076
1,2-Dichlorotetrafluoroethane	0.1263499	0.13	97%	0.089
1,3,5-Trimethylbenzene	0.1406927	0.13	108%	0.0779
1,3-Butadiene	0.1605854	0.13	124%	0.104
1,3-Dichlorobenzene	0.1383831	0.13	106%	0.182
1,4-Dichlorobenzene	0.1307289	0.13	101%	0.0557
1,4-Dioxane	0.1236371	0.13	95%	0.0833
2,2,4-Trimethylpentane	0.1323498	0.13	102%	0.133
2-Butanone (MEK)	0.1363986	0.13	105%	0.0814
2-Chlorotoluene	0.135073	0.13	104%	0.0828
2-METHYLNAPHTHALENE	0	0.13	0%	0
2-Propanol	0.1232465	0.13	95%	0.264
4-Ethyltoluene	0.1316192	0.13	101%	0.0783
4-Methyl-2-Pentanone (MIBK)	0.1080683	0.13	83%	0.0765
Acetone	0.1523313	0.13	117%	0.584
ACETONITRILE	0.5860719	0.65	90%	0.235
ACROLEIN	0.1274845	0.13	98%	0.314
ACRYLONITRILE	0.1192221	0.13	92%	0.226
Allyl Chloride	0.1535637	0.13	118%	0.114
Benzene	0.1354833	0.13	104%	0.0715
Benzyl Chloride	0.1269366	0.13	98%	0.0598
Bromodichloromethane	0.1228225	0.13	94%	0.0702
BROMOETHANE	0.1341582	0.13	103%	0.216

Bromoform	0.1083943	0.13	83%	0.0732
Bromomethane	0.139345	0.13	107%	0.0982
BUTANE	0.169116	0.13	130%	0.0522
Carbon Disulfide	0.1385819	0.13	107%	0.102
Carbon Tetrachloride	0.1287396	0.13	99%	0.0732
Chlorobenzene	0.1250434	0.13	96%	0.0832
Chlorodibromomethane	0.1164578	0.13	90%	0.0727
CHLORODIFLUOROMETHANE	0.0916363	0.13	70%	0.131
Chloroethane	0.1449124	0.13	111%	0.0996
Chloroform	0.132623	0.13	102%	0.0717
Chloromethane	0.1255332	0.13	97%	0.103
cis-1,2-Dichloroethene	0.1337763	0.13	103%	0.0784
cis-1,3-Dichloropropene	0.139606	0.13	107%	0.0689
Cyclohexane	0.1425812	0.13	110%	0.0753
Dichlorodifluoromethane	0.1442311	0.13	111%	0.137
DICYCLOPENTADIENE	0	0.13	0%	0
DI-ISOPROPYL ETHER	0.127252	0.13	98%	0.0839
Ethanol	0.1434825	0.13	110%	0.265
ETHYL ACETATE	0.1198144	0.13	92%	0.1
ETHYL TERT-BUTYL ETHER	0.1347075	0.13	104%	0.0804
Ethylbenzene	0.1321004	0.13	102%	0.0835
Heptane	0.115635	0.13	89%	0.104
Hexachloro-1,3-Butadiene	0.140141	0.13	108%	0.105
ISOPENTANE	0.1384284	0.13	106%	0
Isopropylbenzene	0.1330694	0.13	102%	0.0777
M&P-Xylene	0.2654085	0.26	102%	0.135
METHYL ACETATE	0.1374452	0.13	106%	0.0869
Methyl Butyl Ketone	0.1161894	0.13	89%	0.133
METHYL CYCLOHEXANE	0.1299431	0.13	100%	0.0813
Methyl Methacrylate	0.1129548	0.13	87%	0.0876
Methyl Tert-Butyl Ether	0.138435	0.13	106%	0.0647
Methylene Chloride	0.1435018	0.13	110%	0.0979
Naphthalene	0.1318854	0.13	101%	0.35
n-Butylbenzene	0.1320222	0.13	102%	0.0817
n-DECANE	0.1300041	0.13	100%	0.0784
n-Hexane	0.1372576	0.13	106%	0.206
n-OCTANE	0.1150007	0.13	88%	0.09
NONANE	0.1336654	0.13	103%	0.0363
n-Propylbenzene	0.138734	0.13	107%	0.0773
O-Xylene	0.1322177	0.13	102%	0.0828
PENTANE	0.1526548	0.13	117%	0.0503
P-ISOPROPYLTOLUENE	0.1505486	0.13	116%	0.0684
Propene	0.3303359	0.13	254%	0.0932
sec-Butylbenzene	0.1465908	0.13	113%	0.0775
Styrene	0.1193764	0.13	92%	0.0788

TERT-AMYL ETHYL ETHER	0.1395601	0.13	107%	0.0778
TERT-AMYL METHYL ETHER	0.1320877	0.13	102%	0.0982
TERT-BUTYL ALCOHOL	0.1356932	0.13	104%	0.0581
tert-Butylbenzene	0.142024	0.13	109%	0.0738
Tetrachloroethene	0.1245012	0.13	96%	0.0814
Tetrahydrofuran	0.1310663	0.13	101%	0.0734
Toluene	0.1353756	0.13	104%	0.087
TPH (GC/MS) Low Fraction	19.8221087	5.88	337%	39.7
TPH-GRO (C5-C10)	31.2790876	8.87	353%	39.7
Trans-1,2-Dichloroethene	0.1276309	0.13	98%	0.0673
trans-1,3-Dichloropropene	0.1280443	0.13	98%	0.0728
Trichloroethene	0.1392527	0.13	107%	0.068
Trichlorofluoromethane	0.1450916	0.13	112%	0.0819
Vinyl Acetate	0.1474313	0.13	113%	0.116
Vinyl Bromide	0.1406477	0.13	108%	0.0852
Vinyl Chloride	0.1376831	0.13	106%	0.0949



ANALYTICAL REPORT

June 17, 2022

Ensolum, LLC

Sample Delivery Group: L1504035
Samples Received: 06/11/2022
Project Number: 0371417001
Description: Levey Well
Site: 0381417001
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 "M. Beasley".

Mark W. Beasley
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	
LEVEL WELL L1504035-01	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

LEVEL WELL L1504035-01 Air

Collected by
Shane Diller

Collected date/time
06/09/22 13:33

Received date/time
06/11/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1879639	80	06/15/22 19:59	06/15/22 19:59	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1880536	1000	06/16/22 16:48	06/16/22 16:48	CEP	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.



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ 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.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 06/17/2022 08:40				
Project Name: Levey Well			Laboratory Job Number: L1504035-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1879639 and WG1880536				
# 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: 06/17/2022 08:40				
Project Name: Levey Well			Laboratory Job Number: L1504035-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1879639 and WG1880536				
# 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: 06/17/2022 08:40	
Project Name: Levey Well		Laboratory Job Number: L1504035-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1879639 and WG1880536	
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: 06/09/22 13:33

L1504035

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	100	238	ND	ND		80	WG1879639
Allyl chloride	107-05-1	76.53	16.0	50.1	ND	ND		80	WG1879639
Benzene	71-43-2	78.10	16.0	51.1	ND	ND		80	WG1879639
Benzyl Chloride	100-44-7	127	16.0	83.1	ND	ND		80	WG1879639
Bromodichloromethane	75-27-4	164	16.0	107	ND	ND		80	WG1879639
Bromoform	75-25-2	253	48.0	497	ND	ND		80	WG1879639
Bromomethane	74-83-9	94.90	16.0	62.1	ND	ND		80	WG1879639
1,3-Butadiene	106-99-0	54.10	160	354	ND	ND		80	WG1879639
Carbon disulfide	75-15-0	76.10	16.0	49.8	17.1	53.2		80	WG1879639
Carbon tetrachloride	56-23-5	154	16.0	101	ND	ND		80	WG1879639
Chlorobenzene	108-90-7	113	16.0	73.9	ND	ND		80	WG1879639
Chloroethane	75-00-3	64.50	16.0	42.2	ND	ND		80	WG1879639
Chloroform	67-66-3	119	16.0	77.9	ND	ND		80	WG1879639
Chloromethane	74-87-3	50.50	16.0	33.0	ND	ND		80	WG1879639
2-Chlorotoluene	95-49-8	126	16.0	82.5	ND	ND		80	WG1879639
Cyclohexane	110-82-7	84.20	200	689	8970	30900		1000	WG1880536
Dibromochloromethane	124-48-1	208	16.0	136	ND	ND		80	WG1879639
1,2-Dibromoethane	106-93-4	188	16.0	123	ND	ND		80	WG1879639
1,2-Dichlorobenzene	95-50-1	147	16.0	96.2	ND	ND		80	WG1879639
1,3-Dichlorobenzene	541-73-1	147	16.0	96.2	ND	ND		80	WG1879639
1,4-Dichlorobenzene	106-46-7	147	16.0	96.2	ND	ND		80	WG1879639
1,2-Dichloroethane	107-06-2	99	16.0	64.8	ND	ND		80	WG1879639
1,1-Dichloroethane	75-34-3	98	16.0	64.1	ND	ND		80	WG1879639
1,1-Dichloroethene	75-35-4	96.90	16.0	63.4	ND	ND		80	WG1879639
cis-1,2-Dichloroethene	156-59-2	96.90	16.0	63.4	ND	ND		80	WG1879639
trans-1,2-Dichloroethene	156-60-5	96.90	16.0	63.4	ND	ND		80	WG1879639
1,2-Dichloropropane	78-87-5	113	16.0	73.9	ND	ND		80	WG1879639
cis-1,3-Dichloropropene	10061-01-5	111	16.0	72.6	ND	ND		80	WG1879639
trans-1,3-Dichloropropene	10061-02-6	111	16.0	72.6	ND	ND		80	WG1879639
1,4-Dioxane	123-91-1	88.10	16.0	57.7	ND	ND		80	WG1879639
Ethanol	64-17-5	46.10	100	189	662	1250		80	WG1879639
Ethylbenzene	100-41-4	106	16.0	69.4	ND	ND		80	WG1879639
4-Ethyltoluene	622-96-8	120	16.0	78.5	ND	ND		80	WG1879639
Trichlorofluoromethane	75-69-4	137.40	16.0	89.9	ND	ND		80	WG1879639
Dichlorodifluoromethane	75-71-8	120.92	16.0	79.1	ND	ND		80	WG1879639
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	16.0	123	ND	ND		80	WG1879639
1,2-Dichlorotetrafluoroethane	76-14-2	171	16.0	112	ND	ND		80	WG1879639
Heptane	142-82-5	100	200	818	18600	76100		1000	WG1880536
Hexachloro-1,3-butadiene	87-68-3	261	50.4	538	ND	ND		80	WG1879639
n-Hexane	110-54-3	86.20	630	2220	79000	279000		1000	WG1880536
Isopropylbenzene	98-82-8	120.20	16.0	78.7	ND	ND		80	WG1879639
Methylene Chloride	75-09-2	84.90	16.0	55.6	25.2	87.5		80	WG1879639
Methyl Butyl Ketone	591-78-6	100	100	409	ND	ND		80	WG1879639
2-Butanone (MEK)	78-93-3	72.10	100	295	521	1540		80	WG1879639
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	100	409	ND	ND		80	WG1879639
Methyl methacrylate	80-62-6	100.12	16.0	65.5	ND	ND		80	WG1879639
MTBE	1634-04-4	88.10	16.0	57.7	ND	ND		80	WG1879639
Naphthalene	91-20-3	128	50.4	264	ND	ND		80	WG1879639
2-Propanol	67-63-0	60.10	100	246	5080	12500		80	WG1879639
Propene	115-07-1	42.10	100	172	ND	ND		80	WG1879639
Styrene	100-42-5	104	16.0	68.1	ND	ND		80	WG1879639
1,1,2,2-Tetrachloroethane	79-34-5	168	16.0	110	ND	ND		80	WG1879639
Tetrachloroethylene	127-18-4	166	16.0	109	ND	ND		80	WG1879639
Tetrahydrofuran	109-99-9	72.10	16.0	47.2	ND	ND		80	WG1879639
Toluene	108-88-3	92.10	40.0	151	ND	ND		80	WG1879639
1,2,4-Trichlorobenzene	120-82-1	181	50.4	373	ND	ND		80	WG1879639



Collected date/time: 06/09/22 13:33

L1504035

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	16.0	87.0	ND	ND		80	WG1879639
1,1,2-Trichloroethane	79-00-5	133	16.0	87.0	ND	ND		80	WG1879639
Trichloroethylene	79-01-6	131	16.0	85.7	ND	ND		80	WG1879639
1,2,4-Trimethylbenzene	95-63-6	120	16.0	78.5	ND	ND		80	WG1879639
1,3,5-Trimethylbenzene	108-67-8	120	16.0	78.5	45.4	223		80	WG1879639
2,2,4-Trimethylpentane	540-84-1	114.22	16.0	74.7	ND	ND		80	WG1879639
Vinyl chloride	75-01-4	62.50	16.0	40.9	ND	ND		80	WG1879639
Vinyl Bromide	593-60-2	106.95	16.0	70.0	ND	ND		80	WG1879639
Vinyl acetate	108-05-4	86.10	16.0	56.3	ND	ND		80	WG1879639
m&p-Xylene	1330-20-7	106	32.0	139	ND	ND		80	WG1879639
o-Xylene	95-47-6	106	16.0	69.4	18.3	79.3		80	WG1879639
TPH (GC/MS) Low Fraction	8006-61-9	101	16000	66100	296000	1220000		80	WG1879639
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG1879639
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.1				WG1880536

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3803470-3 06/15/22 09:52

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	1.25
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

L1504035-01

Method Blank (MB)

(MB) R3803470-3 06/15/22 09:52

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	50.9	U	39.7	200
(S) 1,4-Bromofluorobenzene	96.1			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3803470-1 06/15/22 08:54 • (LCSD) R3803470-2 06/15/22 09:24

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	3.61	3.60	96.3	96.0	70.0-130			0.277	25
Allyl Chloride	3.75	3.70	3.61	98.7	96.3	70.0-130			2.46	25
Benzene	3.75	3.62	3.64	96.5	97.1	70.0-130			0.551	25
Benzyl Chloride	3.75	3.74	3.66	99.7	97.6	70.0-152			2.16	25
Bromodichloromethane	3.75	3.50	3.43	93.3	91.5	70.0-130			2.02	25
Bromoform	3.75	3.52	3.45	93.9	92.0	70.0-130			2.01	25
Bromomethane	3.75	3.70	3.75	98.7	100	70.0-130			1.34	25

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

(LCS) R3803470-1 06/15/22 08:54 • (LCSD) R3803470-2 06/15/22 09:24

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3-Butadiene	3.75	3.80	3.64	101	97.1	70.0-130			4.30	25
Carbon disulfide	3.75	3.64	3.57	97.1	95.2	70.0-130			1.94	25
Carbon tetrachloride	3.75	3.52	3.47	93.9	92.5	70.0-130			1.43	25
Chlorobenzene	3.75	3.65	3.62	97.3	96.5	70.0-130			0.825	25
Chloroethane	3.75	3.55	3.59	94.7	95.7	70.0-130			1.12	25
Chloroform	3.75	3.58	3.59	95.5	95.7	70.0-130			0.279	25
Chloromethane	3.75	3.67	3.67	97.9	97.9	70.0-130			0.000	25
2-Chlorotoluene	3.75	3.82	3.82	102	102	70.0-130			0.000	25
Dibromochloromethane	3.75	3.55	3.52	94.7	93.9	70.0-130			0.849	25
1,2-Dibromoethane	3.75	3.67	3.66	97.9	97.6	70.0-130			0.273	25
1,2-Dichlorobenzene	3.75	3.74	3.75	99.7	100	70.0-130			0.267	25
1,3-Dichlorobenzene	3.75	3.84	3.80	102	101	70.0-130			1.05	25
1,4-Dichlorobenzene	3.75	3.87	3.85	103	103	70.0-130			0.518	25
1,2-Dichloroethane	3.75	3.48	3.48	92.8	92.8	70.0-130			0.000	25
1,1-Dichloroethane	3.75	3.57	3.55	95.2	94.7	70.0-130			0.562	25
1,1-Dichloroethene	3.75	3.68	3.71	98.1	98.9	70.0-130			0.812	25
cis-1,2-Dichloroethene	3.75	3.54	3.58	94.4	95.5	70.0-130			1.12	25
trans-1,2-Dichloroethene	3.75	3.73	3.74	99.5	99.7	70.0-130			0.268	25
1,2-Dichloropropane	3.75	3.51	3.47	93.6	92.5	70.0-130			1.15	25
cis-1,3-Dichloropropene	3.75	3.69	3.64	98.4	97.1	70.0-130			1.36	25
trans-1,3-Dichloropropene	3.75	3.72	3.64	99.2	97.1	70.0-130			2.17	25
1,4-Dioxane	3.75	3.69	3.73	98.4	99.5	70.0-140			1.08	25
Ethanol	3.75	3.79	3.71	101	98.9	55.0-148			2.13	25
Ethylbenzene	3.75	3.81	3.79	102	101	70.0-130			0.526	25
4-Ethyltoluene	3.75	3.95	3.90	105	104	70.0-130			1.27	25
Trichlorofluoromethane	3.75	3.75	3.70	100	98.7	70.0-130			1.34	25
Dichlorodifluoromethane	3.75	3.71	3.69	98.9	98.4	64.0-139			0.541	25
1,1,2-Trichlorotrifluoroethane	3.75	3.83	3.81	102	102	70.0-130			0.524	25
1,2-Dichlorotetrafluoroethane	3.75	3.74	3.71	99.7	98.9	70.0-130			0.805	25
Hexachloro-1,3-butadiene	3.75	3.77	3.74	101	99.7	70.0-151			0.799	25
Isopropylbenzene	3.75	3.83	3.79	102	101	70.0-130			1.05	25
Methylene Chloride	3.75	3.47	3.39	92.5	90.4	70.0-130			2.33	25
Methyl Butyl Ketone	3.75	3.76	3.67	100	97.9	70.0-149			2.42	25
Methyl Ethyl Ketone	3.75	3.71	3.80	98.9	101	70.0-130			2.40	25
4-Methyl-2-pentanone (MIBK)	3.75	3.75	3.71	100	98.9	70.0-139			1.07	25
Methyl Methacrylate	3.75	3.75	3.66	100	97.6	70.0-130			2.43	25
MTBE	3.75	3.82	3.78	102	101	70.0-130			1.05	25
Naphthalene	3.75	4.37	4.32	117	115	70.0-159			1.15	25
2-Propanol	3.75	3.69	3.61	98.4	96.3	70.0-139			2.19	25
Propene	3.75	3.67	3.68	97.9	98.1	64.0-144			0.272	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3803470-1 06/15/22 08:54 • (LCSD) R3803470-2 06/15/22 09:24

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Styrene	3.75	3.90	3.87	104	103	70.0-130			0.772	25
1,1,2,2-Tetrachloroethane	3.75	3.75	3.69	100	98.4	70.0-130			1.61	25
Tetrachloroethylene	3.75	3.72	3.69	99.2	98.4	70.0-130			0.810	25
Tetrahydrofuran	3.75	3.62	3.49	96.5	93.1	70.0-137			3.66	25
Toluene	3.75	3.81	3.78	102	101	70.0-130			0.791	25
1,2,4-Trichlorobenzene	3.75	4.00	4.01	107	107	70.0-160			0.250	25
1,1,1-Trichloroethane	3.75	3.62	3.61	96.5	96.3	70.0-130			0.277	25
1,1,2-Trichloroethane	3.75	3.66	3.61	97.6	96.3	70.0-130			1.38	25
Trichloroethylene	3.75	3.63	3.57	96.8	95.2	70.0-130			1.67	25
1,2,4-Trimethylbenzene	3.75	4.08	4.05	109	108	70.0-130			0.738	25
1,3,5-Trimethylbenzene	3.75	3.96	3.95	106	105	70.0-130			0.253	25
2,2,4-Trimethylpentane	3.75	3.62	3.63	96.5	96.8	70.0-130			0.276	25
Vinyl chloride	3.75	3.71	3.70	98.9	98.7	70.0-130			0.270	25
Vinyl Bromide	3.75	3.67	3.63	97.9	96.8	70.0-130			1.10	25
Vinyl acetate	3.75	3.41	3.39	90.9	90.4	70.0-130			0.588	25
m&p-Xylene	7.50	7.72	7.71	103	103	70.0-130			0.130	25
o-Xylene	3.75	3.91	3.86	104	103	70.0-130			1.29	25
TPH (GC/MS) Low Fraction	203	228	227	112	112	70.0-130			0.440	25
(S) 1,4-Bromofluorobenzene				99.9	99.4	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3803894-3 06/16/22 11:50

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	92.9			60.0-140

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

(LCS) R3803894-1 06/16/22 10:47 • (LCSD) R3803894-2 06/16/22 11:19

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	3.45	3.46	92.0	92.3	70.0-130			0.289	25
Heptane	3.75	3.57	3.65	95.2	97.3	70.0-130			2.22	25
n-Hexane	3.75	3.53	3.60	94.1	96.0	70.0-130			1.96	25
(S) 1,4-Bromofluorobenzene				95.3	94.6	60.0-140				

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

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Sr

7

Qc

8

Gl

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Al

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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

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.



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ANALYTICAL REPORT

June 24, 2022

Ensolum, LLC

Sample Delivery Group: L1507217
Samples Received: 06/21/2022
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 blue ink signature of Jason Romer, written in a cursive style.

Jason Romer
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 L1507217-01	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 L1507217-01 Air

Collected by
Shane Diller

Collected date/time
06/12/22 13:15

Received date/time
06/21/22 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1883509	20	06/22/22 16:29	06/22/22 16:29	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1884269	400	06/23/22 19:43	06/23/22 19:43	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.



Jason Romer
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.



Jason Romer
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 06/24/2022 13:41				
Project Name: Levey Well			Laboratory Job Number: L1507217-01				
Reviewer Name: Jason Romer			Prep Batch Number(s): WG1883509 and WG1884269				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?		X			1
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 06/24/2022 13:41				
Project Name: Levey Well			Laboratory Job Number: L1507217-01				
Reviewer Name: Jason Romer			Prep Batch Number(s): WG1883509 and WG1884269				
# 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: 06/24/2022 13:41	
Project Name: Levey Well		Laboratory Job Number: L1507217-01	
Reviewer Name: Jason Romer		Prep Batch Number(s): WG1883509 and WG1884269	
ER #¹	Description		
1	TO-15 WG1883509 L1507217-01: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 06/12/22 13:15

L1507217

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	25.0	59.4	ND	ND		20	WG1883509
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1883509
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1883509
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1883509
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1883509
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1883509
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1883509
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1883509
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1883509
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1883509
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1883509
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1883509
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1883509
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1883509
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1883509
Cyclohexane	110-82-7	84.20	4.00	13.8	1730	5960		20	WG1883509
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1883509
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1883509
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1883509
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1883509
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1883509
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1883509
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1883509
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1883509
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1883509
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1883509
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1883509
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1883509
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1883509
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1883509
Ethanol	64-17-5	46.10	25.0	47.1	419	790		20	WG1883509
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1883509
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG1883509
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1883509
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1883509
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1883509
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1883509
Heptane	142-82-5	100	4.00	16.4	1940	7930		20	WG1883509
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1883509
n-Hexane	110-54-3	86.20	252	888	30500	108000		400	WG1884269
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1883509
Methylene Chloride	75-09-2	84.90	4.00	13.9	24.5	85.1		20	WG1883509
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1883509
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	191	563		20	WG1883509
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1883509
Methyl methacrylate	80-62-6	100.12	4.00	16.4	127	520		20	WG1883509
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1883509
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1883509
2-Propanol	67-63-0	60.10	25.0	61.5	4780	11700	E	20	WG1883509
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1883509
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1883509
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1883509
Tetrachloroethylene	127-18-4	166	4.00	27.2	6.78	46.0		20	WG1883509
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1883509
Toluene	108-88-3	92.10	10.0	37.7	17.2	64.8		20	WG1883509
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1883509

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 06/12/22 13:15

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	ND	ND		20	WG1883509
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1883509
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1883509
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG1883509
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	5.45	26.7		20	WG1883509
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1883509
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1883509
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1883509
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1883509
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1883509
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1883509
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	65600	271000		20	WG1883509
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.9				WG1883509
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		90.6				WG1884269

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3806204-3 06/22/22 09:42

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	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Volatile Organic Compounds (MS) by Method TO-15

L1507217-01

Method Blank (MB)

(MB) R3806204-3 06/22/22 09:42

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	0.116	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	53.6	U	39.7	200
(S) 1,4-Bromofluorobenzene	95.9			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3806204-1 06/22/22 08:43 • (LCSD) R3806204-2 06/22/22 09:13

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	3.84	3.86	102	103	70.0-130			0.519	25
Allyl Chloride	3.75	3.87	3.97	103	106	70.0-130			2.55	25
Benzene	3.75	3.97	3.93	106	105	70.0-130			1.01	25
Benzyl Chloride	3.75	4.11	4.06	110	108	70.0-152			1.22	25
Bromodichloromethane	3.75	4.04	3.99	108	106	70.0-130			1.25	25

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

(LCS) R3806204-1 06/22/22 08:43 • (LCSD) R3806204-2 06/22/22 09:13

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	3.75	3.99	3.98	106	106	70.0-130			0.251	25
Bromomethane	3.75	3.91	3.91	104	104	70.0-130			0.000	25
1,3-Butadiene	3.75	3.95	3.95	105	105	70.0-130			0.000	25
Carbon disulfide	3.75	3.89	3.88	104	103	70.0-130			0.257	25
Carbon tetrachloride	3.75	3.95	3.95	105	105	70.0-130			0.000	25
Chlorobenzene	3.75	3.97	3.94	106	105	70.0-130			0.759	25
Chloroethane	3.75	3.92	3.94	105	105	70.0-130			0.509	25
Chloroform	3.75	3.94	3.96	105	106	70.0-130			0.506	25
Chloromethane	3.75	3.80	3.81	101	102	70.0-130			0.263	25
2-Chlorotoluene	3.75	4.03	4.13	107	110	70.0-130			2.45	25
Cyclohexane	3.75	3.95	3.95	105	105	70.0-130			0.000	25
Dibromochloromethane	3.75	4.17	4.05	111	108	70.0-130			2.92	25
1,2-Dibromoethane	3.75	4.02	4.03	107	107	70.0-130			0.248	25
1,2-Dichlorobenzene	3.75	4.07	4.05	109	108	70.0-130			0.493	25
1,3-Dichlorobenzene	3.75	4.05	4.14	108	110	70.0-130			2.20	25
1,4-Dichlorobenzene	3.75	4.08	4.16	109	111	70.0-130			1.94	25
1,2-Dichloroethane	3.75	3.95	3.91	105	104	70.0-130			1.02	25
1,1-Dichloroethane	3.75	3.91	3.92	104	105	70.0-130			0.255	25
1,1-Dichloroethene	3.75	3.87	3.86	103	103	70.0-130			0.259	25
cis-1,2-Dichloroethene	3.75	3.88	3.95	103	105	70.0-130			1.79	25
trans-1,2-Dichloroethene	3.75	3.82	3.82	102	102	70.0-130			0.000	25
1,2-Dichloropropane	3.75	3.89	3.93	104	105	70.0-130			1.02	25
cis-1,3-Dichloropropene	3.75	4.10	4.05	109	108	70.0-130			1.23	25
trans-1,3-Dichloropropene	3.75	4.09	4.01	109	107	70.0-130			1.98	25
1,4-Dioxane	3.75	3.96	4.03	106	107	70.0-140			1.75	25
Ethanol	3.75	4.05	4.00	108	107	55.0-148			1.24	25
Ethylbenzene	3.75	3.98	4.09	106	109	70.0-130			2.73	25
4-Ethyltoluene	3.75	4.27	4.25	114	113	70.0-130			0.469	25
Trichlorofluoromethane	3.75	3.96	3.93	106	105	70.0-130			0.760	25
Dichlorodifluoromethane	3.75	3.86	3.90	103	104	64.0-139			1.03	25
1,1,2-Trichlorotrifluoroethane	3.75	3.88	3.83	103	102	70.0-130			1.30	25
1,2-Dichlorotetrafluoroethane	3.75	3.96	3.96	106	106	70.0-130			0.000	25
Heptane	3.75	4.02	4.06	107	108	70.0-130			0.990	25
Hexachloro-1,3-butadiene	3.75	4.03	4.05	107	108	70.0-151			0.495	25
Isopropylbenzene	3.75	4.10	4.10	109	109	70.0-130			0.000	25
Methylene Chloride	3.75	3.56	3.55	94.9	94.7	70.0-130			0.281	25
Methyl Butyl Ketone	3.75	4.27	4.31	114	115	70.0-149			0.932	25
Methyl Ethyl Ketone	3.75	3.85	3.95	103	105	70.0-130			2.56	25
4-Methyl-2-pentanone (MIBK)	3.75	4.31	4.25	115	113	70.0-139			1.40	25
Methyl Methacrylate	3.75	4.05	4.04	108	108	70.0-130			0.247	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3806204-1 06/22/22 08:43 • (LCSD) R3806204-2 06/22/22 09:13

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	4.03	4.00	107	107	70.0-130			0.747	25
Naphthalene	3.75	4.51	4.57	120	122	70.0-159			1.32	25
2-Propanol	3.75	3.93	3.92	105	105	70.0-139			0.255	25
Propene	3.75	4.19	4.25	112	113	64.0-144			1.42	25
Styrene	3.75	4.13	4.20	110	112	70.0-130			1.68	25
1,1,2,2-Tetrachloroethane	3.75	4.09	4.15	109	111	70.0-130			1.46	25
Tetrachloroethylene	3.75	4.01	3.94	107	105	70.0-130			1.76	25
Tetrahydrofuran	3.75	3.97	3.96	106	106	70.0-137			0.252	25
Toluene	3.75	4.07	4.05	109	108	70.0-130			0.493	25
1,2,4-Trichlorobenzene	3.75	4.21	4.20	112	112	70.0-160			0.238	25
1,1,1-Trichloroethane	3.75	3.97	3.95	106	105	70.0-130			0.505	25
1,1,2-Trichloroethane	3.75	3.98	3.90	106	104	70.0-130			2.03	25
Trichloroethylene	3.75	3.96	3.97	106	106	70.0-130			0.252	25
1,2,4-Trimethylbenzene	3.75	4.36	4.37	116	117	70.0-130			0.229	25
1,3,5-Trimethylbenzene	3.75	4.20	4.25	112	113	70.0-130			1.18	25
2,2,4-Trimethylpentane	3.75	4.02	4.00	107	107	70.0-130			0.499	25
Vinyl chloride	3.75	3.95	3.92	105	105	70.0-130			0.762	25
Vinyl Bromide	3.75	3.95	3.98	105	106	70.0-130			0.757	25
Vinyl acetate	3.75	4.01	4.01	107	107	70.0-130			0.000	25
m&p-Xylene	7.50	8.38	8.43	112	112	70.0-130			0.595	25
o-Xylene	3.75	4.16	4.24	111	113	70.0-130			1.90	25
TPH (GC/MS) Low Fraction	203	247	251	122	124	70.0-130			1.61	25
(S) 1,4-Bromofluorobenzene				100	102	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1507217-01](#)

Method Blank (MB)

(MB) R3806646-3 06/23/22 10:15

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	92.5			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3806646-1 06/23/22 08:49 • (LCSD) R3806646-2 06/23/22 09:32

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	3.81	3.89	102	104	70.0-130			2.08	25
(S) 1,4-Bromofluorobenzene				93.2	91.1	60.0-140				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.



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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ANALYTICAL REPORT

June 27, 2022

Ensolum, LLC

Sample Delivery Group: L1507690
Samples Received: 06/22/2022
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 "M. Beasley".

Mark W. Beasley
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 L1507690-01	9	
LEVEY WELL L1507690-02	11	
LEVEY WELL L1507690-03	13	⁷ Qc
LEVEY WELL L1507690-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	23	
Al: Accreditations & Locations	24	¹⁰ Sc
Sc: Sample Chain of Custody	25	

LEVEY WELL L1507690-01 Air

Collected by
Shane Diller

Collected date/time
06/20/22 10:15

Received date/time
06/22/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1884242	80	06/24/22 02:08	06/24/22 02:08	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1885153	4000	06/24/22 23:49	06/24/22 23:49	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1885410	40000	06/26/22 03:10	06/26/22 03:10	DAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

LEVEY WELL L1507690-02 Air

Collected by
Shane Diller

Collected date/time
06/20/22 11:48

Received date/time
06/22/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1884242	20	06/24/22 01:31	06/24/22 01:31	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1885153	100	06/25/22 00:20	06/25/22 00:20	DAH	Mt. Juliet, TN

LEVEY WELL L1507690-03 Air

Collected by
Shane Diller

Collected date/time
06/20/22 12:56

Received date/time
06/22/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1884242	1	06/24/22 00:14	06/24/22 00:14	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1885153	20	06/24/22 22:51	06/24/22 22:51	DAH	Mt. Juliet, TN

LEVEY WELL L1507690-04 Air

Collected by
Shane Diller

Collected date/time
06/20/22 14:03

Received date/time
06/22/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1884242	1	06/24/22 00:54	06/24/22 00:54	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1885153	100	06/25/22 00:50	06/25/22 00:50	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.



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ 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.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 06/27/2022 14:39					
Project Name: Levey Well		Laboratory Job Number: L1507690-01, 02, 03 and 04					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1884242, WG1885153 and WG1885410					
# 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: 06/27/2022 14:39				
Project Name: Levey Well			Laboratory Job Number: L1507690-01, 02, 03 and 04				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1884242, WG1885153 and WG1885410				
# 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: 06/27/2022 14:39	
Project Name: Levey Well		Laboratory Job Number: L1507690-01, 02, 03 and 04	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1884242, WG1885153 and WG1885410	
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: 06/20/22 10:15

L1507690

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	100	238	ND	ND		80	WG1884242
Allyl chloride	107-05-1	76.53	16.0	50.1	ND	ND		80	WG1884242
Benzene	71-43-2	78.10	16.0	51.1	ND	ND		80	WG1884242
Benzyl Chloride	100-44-7	127	16.0	83.1	ND	ND		80	WG1884242
Bromodichloromethane	75-27-4	164	16.0	107	ND	ND		80	WG1884242
Bromoform	75-25-2	253	48.0	497	ND	ND		80	WG1884242
Bromomethane	74-83-9	94.90	16.0	62.1	ND	ND		80	WG1884242
1,3-Butadiene	106-99-0	54.10	160	354	ND	ND		80	WG1884242
Carbon disulfide	75-15-0	76.10	16.0	49.8	ND	ND		80	WG1884242
Carbon tetrachloride	56-23-5	154	16.0	101	ND	ND		80	WG1884242
Chlorobenzene	108-90-7	113	16.0	73.9	ND	ND		80	WG1884242
Chloroethane	75-00-3	64.50	16.0	42.2	ND	ND		80	WG1884242
Chloroform	67-66-3	119	16.0	77.9	ND	ND		80	WG1884242
Chloromethane	74-87-3	50.50	16.0	33.0	ND	ND		80	WG1884242
2-Chlorotoluene	95-49-8	126	16.0	82.5	ND	ND		80	WG1884242
Cyclohexane	110-82-7	84.20	800	2760	55000	189000		4000	WG1885153
Dibromochloromethane	124-48-1	208	16.0	136	ND	ND		80	WG1884242
1,2-Dibromoethane	106-93-4	188	16.0	123	ND	ND		80	WG1884242
1,2-Dichlorobenzene	95-50-1	147	16.0	96.2	ND	ND		80	WG1884242
1,3-Dichlorobenzene	541-73-1	147	16.0	96.2	ND	ND		80	WG1884242
1,4-Dichlorobenzene	106-46-7	147	16.0	96.2	ND	ND		80	WG1884242
1,2-Dichloroethane	107-06-2	99	16.0	64.8	ND	ND		80	WG1884242
1,1-Dichloroethane	75-34-3	98	16.0	64.1	ND	ND		80	WG1884242
1,1-Dichloroethene	75-35-4	96.90	16.0	63.4	ND	ND		80	WG1884242
cis-1,2-Dichloroethene	156-59-2	96.90	16.0	63.4	ND	ND		80	WG1884242
trans-1,2-Dichloroethene	156-60-5	96.90	16.0	63.4	ND	ND		80	WG1884242
1,2-Dichloropropane	78-87-5	113	16.0	73.9	ND	ND		80	WG1884242
cis-1,3-Dichloropropene	10061-01-5	111	16.0	72.6	ND	ND		80	WG1884242
trans-1,3-Dichloropropene	10061-02-6	111	16.0	72.6	ND	ND		80	WG1884242
1,4-Dioxane	123-91-1	88.10	16.0	57.7	ND	ND		80	WG1884242
Ethanol	64-17-5	46.10	100	189	ND	ND		80	WG1884242
Ethylbenzene	100-41-4	106	16.0	69.4	ND	ND		80	WG1884242
4-Ethyltoluene	622-96-8	120	16.0	78.5	49.3	242		80	WG1884242
Trichlorofluoromethane	75-69-4	137.40	16.0	89.9	ND	ND		80	WG1884242
Dichlorodifluoromethane	75-71-8	120.92	16.0	79.1	ND	ND		80	WG1884242
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	16.0	123	ND	ND		80	WG1884242
1,2-Dichlorotetrafluoroethane	76-14-2	171	16.0	112	ND	ND		80	WG1884242
Heptane	142-82-5	100	800	3270	78000	319000		4000	WG1885153
Hexachloro-1,3-butadiene	87-68-3	261	50.4	538	ND	ND		80	WG1884242
n-Hexane	110-54-3	86.20	25200	88800	918000	3240000		40000	WG1885410
Isopropylbenzene	98-82-8	120.20	16.0	78.7	ND	ND		80	WG1884242
Methylene Chloride	75-09-2	84.90	16.0	55.6	ND	ND		80	WG1884242
Methyl Butyl Ketone	591-78-6	100	100	409	ND	ND		80	WG1884242
2-Butanone (MEK)	78-93-3	72.10	100	295	2700	7960		80	WG1884242
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	100	409	ND	ND		80	WG1884242
Methyl methacrylate	80-62-6	100.12	16.0	65.5	ND	ND		80	WG1884242
MTBE	1634-04-4	88.10	16.0	57.7	ND	ND		80	WG1884242
Naphthalene	91-20-3	128	50.4	264	ND	ND		80	WG1884242
2-Propanol	67-63-0	60.10	100	246	5180	12700		80	WG1884242
Propene	115-07-1	42.10	100	172	ND	ND		80	WG1884242
Styrene	100-42-5	104	16.0	68.1	ND	ND		80	WG1884242
1,1,2,2-Tetrachloroethane	79-34-5	168	16.0	110	ND	ND		80	WG1884242
Tetrachloroethylene	127-18-4	166	16.0	109	ND	ND		80	WG1884242
Tetrahydrofuran	109-99-9	72.10	16.0	47.2	ND	ND		80	WG1884242
Toluene	108-88-3	92.10	40.0	151	ND	ND		80	WG1884242
1,2,4-Trichlorobenzene	120-82-1	181	50.4	373	ND	ND		80	WG1884242

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 06/20/22 10:15

L1507690

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	16.0	87.0	ND	ND		80	WG1884242
1,1,2-Trichloroethane	79-00-5	133	16.0	87.0	ND	ND		80	WG1884242
Trichloroethylene	79-01-6	131	16.0	85.7	ND	ND		80	WG1884242
1,2,4-Trimethylbenzene	95-63-6	120	16.0	78.5	25.3	124		80	WG1884242
1,3,5-Trimethylbenzene	108-67-8	120	16.0	78.5	63.9	314		80	WG1884242
2,2,4-Trimethylpentane	540-84-1	114.22	16.0	74.7	ND	ND		80	WG1884242
Vinyl chloride	75-01-4	62.50	16.0	40.9	ND	ND		80	WG1884242
Vinyl Bromide	593-60-2	106.95	16.0	70.0	ND	ND		80	WG1884242
Vinyl acetate	108-05-4	86.10	16.0	56.3	ND	ND		80	WG1884242
m&p-Xylene	1330-20-7	106	32.0	139	36.3	157		80	WG1884242
o-Xylene	95-47-6	106	16.0	69.4	24.3	105		80	WG1884242
TPH (GC/MS) Low Fraction	8006-61-9	101	800000	3300000	2570000	10600000	<u>B</u>	4000	WG1885153
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG1884242
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.3				WG1885153
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.3				WG1885410

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 06/20/22 11:48

L1507690

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	25.0	59.4	57.6	137		20	WG1884242
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1884242
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1884242
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1884242
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1884242
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1884242
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1884242
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1884242
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1884242
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1884242
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1884242
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1884242
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1884242
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1884242
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1884242
Cyclohexane	110-82-7	84.20	4.00	13.8	404	1390		20	WG1884242
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1884242
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1884242
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1884242
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1884242
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1884242
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1884242
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1884242
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1884242
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1884242
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1884242
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1884242
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1884242
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1884242
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1884242
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1884242
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1884242
4-Ethyltoluene	622-96-8	120	4.00	19.6	11.7	57.4		20	WG1884242
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1884242
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1884242
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1884242
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1884242
Heptane	142-82-5	100	4.00	16.4	945	3870		20	WG1884242
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1884242
n-Hexane	110-54-3	86.20	63.0	222	4040	14200		100	WG1885153
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1884242
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1884242
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1884242
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	44.0	130		20	WG1884242
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1884242
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1884242
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1884242
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1884242
2-Propanol	67-63-0	60.10	25.0	61.5	45.5	112		20	WG1884242
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1884242
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1884242
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1884242
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1884242
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1884242
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1884242
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1884242



Collected date/time: 06/20/22 11:48

L1507690

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	ND	ND		20	WG1884242
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1884242
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1884242
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	8.01	39.3		20	WG1884242
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	15.9	78.0		20	WG1884242
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1884242
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1884242
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1884242
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1884242
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1884242
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1884242
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	22500	92900		20	WG1884242
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.3				WG1884242
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.9				WG1885153

¹Cp²Tc³Ss⁴Cn⁵Tr⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc

Collected date/time: 06/20/22 12:56

L1507690

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	40.2	95.5		1	WG1884242
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1884242
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1884242
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1884242
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1884242
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1884242
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1884242
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1884242
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1884242
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1884242
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1884242
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1884242
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1884242
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1884242
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1884242
Cyclohexane	110-82-7	84.20	4.00	13.8	138	475		20	WG1885153
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1884242
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1884242
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1884242
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1884242
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1884242
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1884242
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1884242
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1884242
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1884242
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1884242
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1884242
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1884242
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1884242
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1884242
Ethanol	64-17-5	46.10	1.25	2.36	10.1	19.0		1	WG1884242
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1884242
4-Ethyltoluene	622-96-8	120	0.200	0.982	3.15	15.5		1	WG1884242
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1884242
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.442	2.19		1	WG1884242
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1884242
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1884242
Heptane	142-82-5	100	4.00	16.4	258	1060		20	WG1885153
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1884242
n-Hexane	110-54-3	86.20	12.6	44.4	692	2440		20	WG1885153
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1884242
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1884242
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1884242
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	22.0	64.9		1	WG1884242
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1884242
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1884242
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1884242
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1884242
2-Propanol	67-63-0	60.10	1.25	3.07	19.2	47.2		1	WG1884242
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1884242
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1884242
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1884242
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1884242
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1884242
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG1884242
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1884242

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 06/20/22 12:56

L1507690

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1884242
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1884242
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1884242
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	4.70	23.1		1	WG1884242
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	7.44	36.5		1	WG1884242
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1884242
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1884242
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1884242
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1884242
m&p-Xylene	1330-20-7	106	0.400	1.73	1.31	5.68		1	WG1884242
o-Xylene	95-47-6	106	0.200	0.867	1.26	5.46		1	WG1884242
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	8500	35100	B	20	WG1885153
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		107				WG1884242
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.3				WG1885153

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 06/20/22 14:03

L1507690

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	83.1	197		1	WG1884242
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1884242
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1884242
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1884242
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1884242
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1884242
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1884242
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1884242
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1884242
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1884242
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1884242
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1884242
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1884242
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1884242
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1884242
Cyclohexane	110-82-7	84.20	20.0	68.9	305	1050		100	WG1885153
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1884242
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1884242
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1884242
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1884242
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1884242
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1884242
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1884242
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1884242
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1884242
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1884242
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1884242
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1884242
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1884242
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1884242
Ethanol	64-17-5	46.10	1.25	2.36	9.88	18.6		1	WG1884242
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1884242
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.47	7.21		1	WG1884242
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1884242
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG1884242
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1884242
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1884242
Heptane	142-82-5	100	20.0	81.8	505	2070		100	WG1885153
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1884242
n-Hexane	110-54-3	86.20	63.0	222	4440	15700		100	WG1885153
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1884242
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1884242
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1884242
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	34.7	102		1	WG1884242
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1884242
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1884242
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1884242
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1884242
2-Propanol	67-63-0	60.10	1.25	3.07	45.9	113		1	WG1884242
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1884242
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1884242
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1884242
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1884242
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1884242
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG1884242
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1884242

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 06/20/22 14:03

L1507690

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1884242
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1884242
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1884242
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.77	8.69		1	WG1884242
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	3.47	17.0		1	WG1884242
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1884242
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1884242
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1884242
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1884242
m&p-Xylene	1330-20-7	106	0.400	1.73	0.899	3.90		1	WG1884242
o-Xylene	95-47-6	106	0.200	0.867	0.842	3.65		1	WG1884242
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	21300	88000	B	100	WG1885153
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG1884242
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.1				WG1885153

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3807229-3 06/23/22 09:55

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
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	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3807229-3 06/23/22 09:55

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	0.108	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	0.102	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	96.6			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3807229-1 06/23/22 08:37 • (LCSD) R3807229-2 06/23/22 09:17

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	3.75	3.84	100	102	70.0-130			2.37	25
Allyl Chloride	3.75	3.89	3.97	104	106	70.0-130			2.04	25
Benzene	3.75	3.59	3.66	95.7	97.6	70.0-130			1.93	25
Benzyl Chloride	3.75	3.83	3.87	102	103	70.0-152			1.04	25
Bromodichloromethane	3.75	3.64	3.74	97.1	99.7	70.0-130			2.71	25

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

(LCS) R3807229-1 06/23/22 08:37 • (LCSD) R3807229-2 06/23/22 09:17

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	3.75	3.62	3.71	96.5	98.9	70.0-130			2.46	25
Bromomethane	3.75	3.71	3.85	98.9	103	70.0-130			3.70	25
1,3-Butadiene	3.75	3.62	3.71	96.5	98.9	70.0-130			2.46	25
Carbon disulfide	3.75	3.74	3.81	99.7	102	70.0-130			1.85	25
Carbon tetrachloride	3.75	3.73	3.84	99.5	102	70.0-130			2.91	25
Chlorobenzene	3.75	3.58	3.66	95.5	97.6	70.0-130			2.21	25
Chloroethane	3.75	3.66	3.83	97.6	102	70.0-130			4.54	25
Chloroform	3.75	3.65	3.75	97.3	100	70.0-130			2.70	25
Chloromethane	3.75	3.66	3.81	97.6	102	70.0-130			4.02	25
2-Chlorotoluene	3.75	3.62	3.69	96.5	98.4	70.0-130			1.92	25
Cyclohexane	3.75	3.62	3.75	96.5	100	70.0-130			3.53	25
Dibromochloromethane	3.75	3.63	3.70	96.8	98.7	70.0-130			1.91	25
1,2-Dibromoethane	3.75	3.64	3.73	97.1	99.5	70.0-130			2.44	25
1,2-Dichlorobenzene	3.75	3.69	3.86	98.4	103	70.0-130			4.50	25
1,3-Dichlorobenzene	3.75	3.74	3.83	99.7	102	70.0-130			2.38	25
1,4-Dichlorobenzene	3.75	3.70	3.79	98.7	101	70.0-130			2.40	25
1,2-Dichloroethane	3.75	3.71	3.87	98.9	103	70.0-130			4.22	25
1,1-Dichloroethane	3.75	3.65	3.84	97.3	102	70.0-130			5.07	25
1,1-Dichloroethene	3.75	3.77	3.85	101	103	70.0-130			2.10	25
cis-1,2-Dichloroethene	3.75	3.65	3.80	97.3	101	70.0-130			4.03	25
trans-1,2-Dichloroethene	3.75	3.64	3.85	97.1	103	70.0-130			5.61	25
1,2-Dichloropropane	3.75	3.63	3.69	96.8	98.4	70.0-130			1.64	25
cis-1,3-Dichloropropene	3.75	3.68	3.73	98.1	99.5	70.0-130			1.35	25
trans-1,3-Dichloropropene	3.75	3.69	3.75	98.4	100	70.0-130			1.61	25
1,4-Dioxane	3.75	3.78	3.82	101	102	70.0-140			1.05	25
Ethanol	3.75	3.43	3.59	91.5	95.7	55.0-148			4.56	25
Ethylbenzene	3.75	3.59	3.71	95.7	98.9	70.0-130			3.29	25
4-Ethyltoluene	3.75	3.70	3.79	98.7	101	70.0-130			2.40	25
Trichlorofluoromethane	3.75	3.75	3.90	100	104	70.0-130			3.92	25
Dichlorodifluoromethane	3.75	3.72	3.83	99.2	102	64.0-139			2.91	25
1,1,2-Trichlorotrifluoroethane	3.75	3.70	3.84	98.7	102	70.0-130			3.71	25
1,2-Dichlorotetrafluoroethane	3.75	3.67	3.77	97.9	101	70.0-130			2.69	25
Heptane	3.75	3.70	3.73	98.7	99.5	70.0-130			0.808	25
Hexachloro-1,3-butadiene	3.75	3.58	3.76	95.5	100	70.0-151			4.90	25
Isopropylbenzene	3.75	3.66	3.77	97.6	101	70.0-130			2.96	25
Methylene Chloride	3.75	3.30	3.49	88.0	93.1	70.0-130			5.60	25
Methyl Butyl Ketone	3.75	4.00	3.94	107	105	70.0-149			1.51	25
Methyl Ethyl Ketone	3.75	3.67	3.84	97.9	102	70.0-130			4.53	25
4-Methyl-2-pentanone (MIBK)	3.75	3.80	3.83	101	102	70.0-139			0.786	25
Methyl Methacrylate	3.75	3.71	3.76	98.9	100	70.0-130			1.34	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3807229-1 06/23/22 08:37 • (LCSD) R3807229-2 06/23/22 09:17

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	3.64	3.84	97.1	102	70.0-130			5.35	25
Naphthalene	3.75	3.73	3.78	99.5	101	70.0-159			1.33	25
2-Propanol	3.75	3.77	3.85	101	103	70.0-139			2.10	25
Propene	3.75	3.79	3.84	101	102	64.0-144			1.31	25
Styrene	3.75	3.72	3.80	99.2	101	70.0-130			2.13	25
1,1,2,2-Tetrachloroethane	3.75	3.61	3.72	96.3	99.2	70.0-130			3.00	25
Tetrachloroethylene	3.75	3.54	3.60	94.4	96.0	70.0-130			1.68	25
Tetrahydrofuran	3.75	3.65	3.74	97.3	99.7	70.0-137			2.44	25
Toluene	3.75	3.57	3.68	95.2	98.1	70.0-130			3.03	25
1,2,4-Trichlorobenzene	3.75	3.56	3.66	94.9	97.6	70.0-160			2.77	25
1,1,1-Trichloroethane	3.75	3.68	3.79	98.1	101	70.0-130			2.95	25
1,1,2-Trichloroethane	3.75	3.61	3.69	96.3	98.4	70.0-130			2.19	25
Trichloroethylene	3.75	3.54	3.66	94.4	97.6	70.0-130			3.33	25
1,2,4-Trimethylbenzene	3.75	3.71	3.85	98.9	103	70.0-130			3.70	25
1,3,5-Trimethylbenzene	3.75	3.59	3.81	95.7	102	70.0-130			5.95	25
2,2,4-Trimethylpentane	3.75	3.68	3.73	98.1	99.5	70.0-130			1.35	25
Vinyl chloride	3.75	3.75	3.88	100	103	70.0-130			3.41	25
Vinyl Bromide	3.75	3.76	3.83	100	102	70.0-130			1.84	25
Vinyl acetate	3.75	3.42	3.31	91.2	88.3	70.0-130			3.27	25
m&p-Xylene	7.50	7.26	7.45	96.8	99.3	70.0-130			2.58	25
o-Xylene	3.75	3.63	3.72	96.8	99.2	70.0-130			2.45	25
TPH (GC/MS) Low Fraction	203	206	213	101	105	70.0-130			3.34	25
(S) 1,4-Bromofluorobenzene				101	101	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

Method Blank (MB)

(MB) R3807420-3 06/24/22 09:41

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	64.4	J	39.7	200
(S) 1,4-Bromofluorobenzene	95.3			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3807420-1 06/24/22 08:38 • (LCSD) R3807420-2 06/24/22 09:11

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	3.69	3.75	98.4	100	70.0-130			1.61	25
Heptane	3.75	3.98	3.97	106	106	70.0-130			0.252	25
n-Hexane	3.75	3.92	3.88	105	103	70.0-130			1.03	25
TPH (GC/MS) Low Fraction	203	251	250	124	123	70.0-130			0.399	25
(S) 1,4-Bromofluorobenzene				103	101	60.0-140				

Method Blank (MB)

(MB) R3807542-3 06/25/22 08:30

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	96.7			60.0-140

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

(LCS) R3807542-1 06/25/22 07:06 • (LCSD) R3807542-2 06/25/22 07:48

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	3.88	3.97	103	106	70.0-130			2.29	25
(S) 1,4-Bromofluorobenzene				98.6	100	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.



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.

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Released to Imaging: 3/20/2024 4:36:49 PM



ANALYTICAL REPORT

June 30, 2022

Ensolum, LLC

Sample Delivery Group: L1508891
Samples Received: 06/25/2022
Project Number: 03B1417001
Description: Level 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 "M. Beasley".

Mark W. Beasley
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 L1508891-01	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 L1508891-01 Air

Collected by
Shane Diller

Collected date/time
06/23/22 13:05

Received date/time
06/25/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1886662	1000	06/29/22 03:19	06/29/22 03:19	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1887359	5000	06/29/22 14:15	06/29/22 14:15	CEP	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.



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ 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.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 06/30/2022 10:55					
Project Name: Level Well		Laboratory Job Number: L1508891-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1886662 and WG1887359					
# 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: 06/30/2022 10:55					
Project Name: Level Well		Laboratory Job Number: L1508891-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1886662 and WG1887359					
# 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: 06/30/2022 10:55	
Project Name: Level Well		Laboratory Job Number: L1508891-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1886662 and WG1887359	
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: 06/23/22 13:05

L1508891

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	1250	2970	5900	14000		1000	WG1886662
Allyl chloride	107-05-1	76.53	200	626	ND	ND		1000	WG1886662
Benzene	71-43-2	78.10	200	639	ND	ND		1000	WG1886662
Benzyl Chloride	100-44-7	127	200	1040	ND	ND		1000	WG1886662
Bromodichloromethane	75-27-4	164	200	1340	ND	ND		1000	WG1886662
Bromoform	75-25-2	253	600	6210	ND	ND		1000	WG1886662
Bromomethane	74-83-9	94.90	200	776	ND	ND		1000	WG1886662
1,3-Butadiene	106-99-0	54.10	2000	4430	ND	ND		1000	WG1886662
Carbon disulfide	75-15-0	76.10	200	622	ND	ND		1000	WG1886662
Carbon tetrachloride	56-23-5	154	200	1260	ND	ND		1000	WG1886662
Chlorobenzene	108-90-7	113	200	924	ND	ND		1000	WG1886662
Chloroethane	75-00-3	64.50	200	528	ND	ND		1000	WG1886662
Chloroform	67-66-3	119	200	973	ND	ND		1000	WG1886662
Chloromethane	74-87-3	50.50	200	413	ND	ND		1000	WG1886662
2-Chlorotoluene	95-49-8	126	200	1030	ND	ND		1000	WG1886662
Cyclohexane	110-82-7	84.20	200	689	14100	48600		1000	WG1886662
Dibromochloromethane	124-48-1	208	200	1700	ND	ND		1000	WG1886662
1,2-Dibromoethane	106-93-4	188	200	1540	ND	ND		1000	WG1886662
1,2-Dichlorobenzene	95-50-1	147	200	1200	ND	ND		1000	WG1886662
1,3-Dichlorobenzene	541-73-1	147	200	1200	ND	ND		1000	WG1886662
1,4-Dichlorobenzene	106-46-7	147	200	1200	ND	ND		1000	WG1886662
1,2-Dichloroethane	107-06-2	99	200	810	ND	ND		1000	WG1886662
1,1-Dichloroethane	75-34-3	98	200	802	ND	ND		1000	WG1886662
1,1-Dichloroethene	75-35-4	96.90	200	793	ND	ND		1000	WG1886662
cis-1,2-Dichloroethene	156-59-2	96.90	200	793	ND	ND		1000	WG1886662
trans-1,2-Dichloroethene	156-60-5	96.90	200	793	ND	ND		1000	WG1886662
1,2-Dichloropropane	78-87-5	113	200	924	ND	ND		1000	WG1886662
cis-1,3-Dichloropropene	10061-01-5	111	200	908	ND	ND		1000	WG1886662
trans-1,3-Dichloropropene	10061-02-6	111	200	908	ND	ND		1000	WG1886662
1,4-Dioxane	123-91-1	88.10	200	721	ND	ND		1000	WG1886662
Ethanol	64-17-5	46.10	1250	2360	1730	3260		1000	WG1886662
Ethylbenzene	100-41-4	106	200	867	ND	ND		1000	WG1886662
4-Ethyltoluene	622-96-8	120	200	982	ND	ND		1000	WG1886662
Trichlorofluoromethane	75-69-4	137.40	200	1120	ND	ND		1000	WG1886662
Dichlorodifluoromethane	75-71-8	120.92	200	989	ND	ND		1000	WG1886662
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	200	1530	ND	ND		1000	WG1886662
1,2-Dichlorotetrafluoroethane	76-14-2	171	200	1400	ND	ND		1000	WG1886662
Heptane	142-82-5	100	200	818	26200	107000		1000	WG1886662
Hexachloro-1,3-butadiene	87-68-3	261	630	6730	ND	ND		1000	WG1886662
n-Hexane	110-54-3	86.20	3150	11100	199000	702000		5000	WG1887359
Isopropylbenzene	98-82-8	120.20	200	983	ND	ND		1000	WG1886662
Methylene Chloride	75-09-2	84.90	200	694	ND	ND		1000	WG1886662
Methyl Butyl Ketone	591-78-6	100	1250	5110	ND	ND		1000	WG1886662
2-Butanone (MEK)	78-93-3	72.10	1250	3690	ND	ND		1000	WG1886662
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1250	5120	ND	ND		1000	WG1886662
Methyl methacrylate	80-62-6	100.12	200	819	ND	ND		1000	WG1886662
MTBE	1634-04-4	88.10	200	721	ND	ND		1000	WG1886662
Naphthalene	91-20-3	128	630	3300	ND	ND		1000	WG1886662
2-Propanol	67-63-0	60.10	1250	3070	19800	48700		1000	WG1886662
Propene	115-07-1	42.10	1250	2150	ND	ND		1000	WG1886662
Styrene	100-42-5	104	200	851	ND	ND		1000	WG1886662
1,1,2,2-Tetrachloroethane	79-34-5	168	200	1370	ND	ND		1000	WG1886662
Tetrachloroethylene	127-18-4	166	200	1360	ND	ND		1000	WG1886662
Tetrahydrofuran	109-99-9	72.10	200	590	ND	ND		1000	WG1886662
Toluene	108-88-3	92.10	500	1880	ND	ND		1000	WG1886662
1,2,4-Trichlorobenzene	120-82-1	181	630	4660	ND	ND		1000	WG1886662



Collected date/time: 06/23/22 13:05

L1508891

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	200	1090	ND	ND		1000	WG1886662
1,1,2-Trichloroethane	79-00-5	133	200	1090	ND	ND		1000	WG1886662
Trichloroethylene	79-01-6	131	200	1070	ND	ND		1000	WG1886662
1,2,4-Trimethylbenzene	95-63-6	120	200	982	ND	ND		1000	WG1886662
1,3,5-Trimethylbenzene	108-67-8	120	200	982	ND	ND		1000	WG1886662
2,2,4-Trimethylpentane	540-84-1	114.22	200	934	ND	ND		1000	WG1886662
Vinyl chloride	75-01-4	62.50	200	511	ND	ND		1000	WG1886662
Vinyl Bromide	593-60-2	106.95	200	875	ND	ND		1000	WG1886662
Vinyl acetate	108-05-4	86.10	200	704	ND	ND		1000	WG1886662
m&p-Xylene	1330-20-7	106	400	1730	ND	ND		1000	WG1886662
o-Xylene	95-47-6	106	200	867	ND	ND		1000	WG1886662
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	826000	536000	2210000		1000	WG1886662
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG1886662
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.9				WG1887359

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3808731-3 06/28/22 10:36

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	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3808731-3 06/28/22 10:36

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.0978	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	99.8			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3808731-1 06/28/22 08:58 • (LCSD) R3808731-2 06/28/22 09:47

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.76	3.79	100	101	70.0-130			0.795	25
Allyl Chloride	3.75	3.94	3.82	105	102	70.0-130			3.09	25
Benzene	3.75	3.69	3.69	98.4	98.4	70.0-130			0.000	25
Benzyl Chloride	3.75	3.94	3.92	105	105	70.0-152			0.509	25
Bromodichloromethane	3.75	3.70	3.66	98.7	97.6	70.0-130			1.09	25

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

(LCS) R3808731-1 06/28/22 08:58 • (LCSD) R3808731-2 06/28/22 09:47

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	3.75	3.73	3.69	99.5	98.4	70.0-130			1.08	25
Bromomethane	3.75	3.63	3.64	96.8	97.1	70.0-130			0.275	25
1,3-Butadiene	3.75	3.71	3.77	98.9	101	70.0-130			1.60	25
Carbon disulfide	3.75	3.85	3.78	103	101	70.0-130			1.83	25
Carbon tetrachloride	3.75	3.74	3.74	99.7	99.7	70.0-130			0.000	25
Chlorobenzene	3.75	3.69	3.62	98.4	96.5	70.0-130			1.92	25
Chloroethane	3.75	3.68	3.64	98.1	97.1	70.0-130			1.09	25
Chloroform	3.75	3.76	3.73	100	99.5	70.0-130			0.801	25
Chloromethane	3.75	3.95	3.97	105	106	70.0-130			0.505	25
2-Chlorotoluene	3.75	3.78	3.77	101	101	70.0-130			0.265	25
Cyclohexane	3.75	3.93	3.89	105	104	70.0-130			1.02	25
Dibromochloromethane	3.75	3.68	3.64	98.1	97.1	70.0-130			1.09	25
1,2-Dibromoethane	3.75	3.77	3.73	101	99.5	70.0-130			1.07	25
1,2-Dichlorobenzene	3.75	3.84	3.81	102	102	70.0-130			0.784	25
1,3-Dichlorobenzene	3.75	3.88	3.84	103	102	70.0-130			1.04	25
1,4-Dichlorobenzene	3.75	3.77	3.73	101	99.5	70.0-130			1.07	25
1,2-Dichloroethane	3.75	3.73	3.71	99.5	98.9	70.0-130			0.538	25
1,1-Dichloroethane	3.75	3.82	3.86	102	103	70.0-130			1.04	25
1,1-Dichloroethene	3.75	3.89	3.86	104	103	70.0-130			0.774	25
cis-1,2-Dichloroethene	3.75	3.87	3.84	103	102	70.0-130			0.778	25
trans-1,2-Dichloroethene	3.75	3.85	3.84	103	102	70.0-130			0.260	25
1,2-Dichloropropane	3.75	3.78	3.72	101	99.2	70.0-130			1.60	25
cis-1,3-Dichloropropene	3.75	3.85	3.80	103	101	70.0-130			1.31	25
trans-1,3-Dichloropropene	3.75	3.86	3.83	103	102	70.0-130			0.780	25
1,4-Dioxane	3.75	3.64	3.72	97.1	99.2	70.0-140			2.17	25
Ethanol	3.75	3.54	3.54	94.4	94.4	55.0-148			0.000	25
Ethylbenzene	3.75	3.88	3.85	103	103	70.0-130			0.776	25
4-Ethyltoluene	3.75	3.96	3.95	106	105	70.0-130			0.253	25
Trichlorofluoromethane	3.75	3.75	3.72	100	99.2	70.0-130			0.803	25
Dichlorodifluoromethane	3.75	3.85	3.84	103	102	64.0-139			0.260	25
1,1,2-Trichlorotrifluoroethane	3.75	3.77	3.73	101	99.5	70.0-130			1.07	25
1,2-Dichlorotetrafluoroethane	3.75	3.84	3.79	102	101	70.0-130			1.31	25
Heptane	3.75	3.98	3.98	106	106	70.0-130			0.000	25
Hexachloro-1,3-butadiene	3.75	3.60	3.62	96.0	96.5	70.0-151			0.554	25
Isopropylbenzene	3.75	3.99	3.99	106	106	70.0-130			0.000	25
Methylene Chloride	3.75	3.44	3.48	91.7	92.8	70.0-130			1.16	25
Methyl Butyl Ketone	3.75	3.97	3.94	106	105	70.0-149			0.759	25
Methyl Ethyl Ketone	3.75	3.96	3.78	106	101	70.0-130			4.65	25
4-Methyl-2-pentanone (MIBK)	3.75	3.98	3.97	106	106	70.0-139			0.252	25
Methyl Methacrylate	3.75	3.91	3.89	104	104	70.0-130			0.513	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3808731-1 06/28/22 08:58 • (LCSD) R3808731-2 06/28/22 09:47

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
MTBE	3.75	3.91	3.89	104	104	70.0-130			0.513	25
Naphthalene	3.75	3.38	3.39	90.1	90.4	70.0-159			0.295	25
2-Propanol	3.75	3.54	3.56	94.4	94.9	70.0-139			0.563	25
Propene	3.75	3.85	3.83	103	102	64.0-144			0.521	25
Styrene	3.75	3.94	3.97	105	106	70.0-130			0.759	25
1,1,2,2-Tetrachloroethane	3.75	3.78	3.78	101	101	70.0-130			0.000	25
Tetrachloroethylene	3.75	3.68	3.63	98.1	96.8	70.0-130			1.37	25
Tetrahydrofuran	3.75	3.95	3.93	105	105	70.0-137			0.508	25
Toluene	3.75	3.80	3.78	101	101	70.0-130			0.528	25
1,2,4-Trichlorobenzene	3.75	3.44	3.48	91.7	92.8	70.0-160			1.16	25
1,1,1-Trichloroethane	3.75	3.74	3.75	99.7	100	70.0-130			0.267	25
1,1,2-Trichloroethane	3.75	3.77	3.65	101	97.3	70.0-130			3.23	25
Trichloroethylene	3.75	3.71	3.70	98.9	98.7	70.0-130			0.270	25
1,2,4-Trimethylbenzene	3.75	3.98	3.97	106	106	70.0-130			0.252	25
1,3,5-Trimethylbenzene	3.75	3.95	3.94	105	105	70.0-130			0.253	25
2,2,4-Trimethylpentane	3.75	4.01	3.98	107	106	70.0-130			0.751	25
Vinyl chloride	3.75	3.93	3.86	105	103	70.0-130			1.80	25
Vinyl Bromide	3.75	3.74	3.68	99.7	98.1	70.0-130			1.62	25
Vinyl acetate	3.75	3.97	3.79	106	101	70.0-130			4.64	25
m&p-Xylene	7.50	7.79	7.77	104	104	70.0-130			0.257	25
o-Xylene	3.75	3.93	3.91	105	104	70.0-130			0.510	25
TPH (GC/MS) Low Fraction	203	206	204	101	100	70.0-130			0.976	25
(S) 1,4-Bromofluorobenzene				101	102	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3809114-3 06/29/22 10:07

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	93.4			60.0-140

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

(LCS) R3809114-1 06/29/22 08:45 • (LCSD) R3809114-2 06/29/22 09:27

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.07	4.00	109	107	70.0-130			1.73	25
(S) 1,4-Bromofluorobenzene				97.8	97.6	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.



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ANALYTICAL REPORT

July 07, 2022

Ensolum, LLC

Sample Delivery Group: L1510918
Samples Received: 07/01/2022
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 "M. Beasley".

Mark W. Beasley
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

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LEVEY WELL L1510918-01 Air

Collected by
Shane Diller

Collected date/time
06/29/22 12:55

Received date/time
07/01/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1889362	80	07/03/22 21:55	07/03/22 21:55	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1890563	8000	07/06/22 17:28	07/06/22 17:28	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1891166	40000	07/07/22 13:33	07/07/22 13:33	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.



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ 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.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 07/07/2022 20:21					
Project Name: Levey Well		Laboratory Job Number: L1510918-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1889362, WG1890563 and WG1891166					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?		X			1
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 07/07/2022 20:21					
Project Name: Levey Well		Laboratory Job Number: L1510918-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1889362, WG1890563 and WG1891166					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 07/07/2022 20:21	
Project Name: Levey Well		Laboratory Job Number: L1510918-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1889362, WG1890563 and WG1891166	
ER #¹	Description		
1	TO-15 WG1889362 L1510918-01: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 06/29/22 12:55

L1510918

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	100	238	11500	27300	E	80	WG1889362
Allyl chloride	107-05-1	76.53	16.0	50.1	ND	ND		80	WG1889362
Benzene	71-43-2	78.10	16.0	51.1	ND	ND		80	WG1889362
Benzyl Chloride	100-44-7	127	16.0	83.1	ND	ND		80	WG1889362
Bromodichloromethane	75-27-4	164	16.0	107	ND	ND		80	WG1889362
Bromoform	75-25-2	253	48.0	497	ND	ND		80	WG1889362
Bromomethane	74-83-9	94.90	16.0	62.1	ND	ND		80	WG1889362
1,3-Butadiene	106-99-0	54.10	160	354	ND	ND		80	WG1889362
Carbon disulfide	75-15-0	76.10	16.0	49.8	51.8	161		80	WG1889362
Carbon tetrachloride	56-23-5	154	16.0	101	ND	ND		80	WG1889362
Chlorobenzene	108-90-7	113	16.0	73.9	ND	ND		80	WG1889362
Chloroethane	75-00-3	64.50	16.0	42.2	ND	ND		80	WG1889362
Chloroform	67-66-3	119	16.0	77.9	ND	ND		80	WG1889362
Chloromethane	74-87-3	50.50	16.0	33.0	ND	ND		80	WG1889362
2-Chlorotoluene	95-49-8	126	16.0	82.5	ND	ND		80	WG1889362
Cyclohexane	110-82-7	84.20	1600	5510	98400	339000		8000	WG1890563
Dibromochloromethane	124-48-1	208	16.0	136	ND	ND		80	WG1889362
1,2-Dibromoethane	106-93-4	188	16.0	123	ND	ND		80	WG1889362
1,2-Dichlorobenzene	95-50-1	147	16.0	96.2	ND	ND		80	WG1889362
1,3-Dichlorobenzene	541-73-1	147	16.0	96.2	ND	ND		80	WG1889362
1,4-Dichlorobenzene	106-46-7	147	16.0	96.2	ND	ND		80	WG1889362
1,2-Dichloroethane	107-06-2	99	16.0	64.8	ND	ND		80	WG1889362
1,1-Dichloroethane	75-34-3	98	16.0	64.1	ND	ND		80	WG1889362
1,1-Dichloroethene	75-35-4	96.90	16.0	63.4	ND	ND		80	WG1889362
cis-1,2-Dichloroethene	156-59-2	96.90	16.0	63.4	ND	ND		80	WG1889362
trans-1,2-Dichloroethene	156-60-5	96.90	16.0	63.4	ND	ND		80	WG1889362
1,2-Dichloropropane	78-87-5	113	16.0	73.9	ND	ND		80	WG1889362
cis-1,3-Dichloropropene	10061-01-5	111	16.0	72.6	ND	ND		80	WG1889362
trans-1,3-Dichloropropene	10061-02-6	111	16.0	72.6	ND	ND		80	WG1889362
1,4-Dioxane	123-91-1	88.10	16.0	57.7	ND	ND		80	WG1889362
Ethanol	64-17-5	46.10	100	189	897	1690		80	WG1889362
Ethylbenzene	100-41-4	106	16.0	69.4	ND	ND		80	WG1889362
4-Ethyltoluene	622-96-8	120	16.0	78.5	64.0	314		80	WG1889362
Trichlorofluoromethane	75-69-4	137.40	16.0	89.9	ND	ND		80	WG1889362
Dichlorodifluoromethane	75-71-8	120.92	16.0	79.1	ND	ND		80	WG1889362
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	16.0	123	ND	ND		80	WG1889362
1,2-Dichlorotetrafluoroethane	76-14-2	171	16.0	112	ND	ND		80	WG1889362
Heptane	142-82-5	100	1600	6540	110000	450000		8000	WG1890563
Hexachloro-1,3-butadiene	87-68-3	261	50.4	538	ND	ND		80	WG1889362
n-Hexane	110-54-3	86.20	25200	88800	942000	3320000		40000	WG1891166
Isopropylbenzene	98-82-8	120.20	16.0	78.7	ND	ND		80	WG1889362
Methylene Chloride	75-09-2	84.90	16.0	55.6	ND	ND		80	WG1889362
Methyl Butyl Ketone	591-78-6	100	100	409	ND	ND		80	WG1889362
2-Butanone (MEK)	78-93-3	72.10	100	295	6450	19000		80	WG1889362
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	100	409	ND	ND		80	WG1889362
Methyl methacrylate	80-62-6	100.12	16.0	65.5	ND	ND		80	WG1889362
MTBE	1634-04-4	88.10	16.0	57.7	ND	ND		80	WG1889362
Naphthalene	91-20-3	128	50.4	264	ND	ND		80	WG1889362
2-Propanol	67-63-0	60.10	100	246	5530	13600		80	WG1889362
Propene	115-07-1	42.10	100	172	ND	ND		80	WG1889362
Styrene	100-42-5	104	16.0	68.1	ND	ND		80	WG1889362
1,1,2,2-Tetrachloroethane	79-34-5	168	16.0	110	ND	ND		80	WG1889362
Tetrachloroethylene	127-18-4	166	16.0	109	ND	ND		80	WG1889362
Tetrahydrofuran	109-99-9	72.10	16.0	47.2	ND	ND		80	WG1889362
Toluene	108-88-3	92.10	40.0	151	ND	ND		80	WG1889362
1,2,4-Trichlorobenzene	120-82-1	181	50.4	373	ND	ND		80	WG1889362

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 06/29/22 12:55

L1510918

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	16.0	87.0	ND	ND		80	WG1889362
1,1,2-Trichloroethane	79-00-5	133	16.0	87.0	ND	ND		80	WG1889362
Trichloroethylene	79-01-6	131	16.0	85.7	ND	ND		80	WG1889362
1,2,4-Trimethylbenzene	95-63-6	120	16.0	78.5	30.4	149		80	WG1889362
1,3,5-Trimethylbenzene	108-67-8	120	16.0	78.5	92.2	453		80	WG1889362
2,2,4-Trimethylpentane	540-84-1	114.22	16.0	74.7	ND	ND		80	WG1889362
Vinyl chloride	75-01-4	62.50	16.0	40.9	ND	ND		80	WG1889362
Vinyl Bromide	593-60-2	106.95	16.0	70.0	ND	ND		80	WG1889362
Vinyl acetate	108-05-4	86.10	16.0	56.3	ND	ND		80	WG1889362
m&p-Xylene	1330-20-7	106	32.0	139	ND	ND		80	WG1889362
o-Xylene	95-47-6	106	16.0	69.4	ND	ND		80	WG1889362
TPH (GC/MS) Low Fraction	8006-61-9	101	1600000	6610000	4740000	19600000		8000	WG1890563
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		104				WG1889362
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.5				WG1890563
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.0				WG1891166

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3810769-3 07/03/22 11:13

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	1.25
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	0.133	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

L1510918-01

Method Blank (MB)

(MB) R3810769-3 07/03/22 11:13

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	0.243	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	93.5			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3810769-1 07/03/22 09:51 • (LCSD) R3810769-2 07/03/22 10:32

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	4.12	4.11	110	110	70.0-130			0.243	25
Allyl Chloride	3.75	4.04	4.01	108	107	70.0-130			0.745	25
Benzene	3.75	4.16	4.15	111	111	70.0-130			0.241	25
Benzyl Chloride	3.75	4.45	4.39	119	117	70.0-152			1.36	25
Bromodichloromethane	3.75	4.10	4.11	109	110	70.0-130			0.244	25
Bromoform	3.75	4.09	4.06	109	108	70.0-130			0.736	25
Bromomethane	3.75	4.03	4.03	107	107	70.0-130			0.000	25
1,3-Butadiene	3.75	4.01	4.10	107	109	70.0-130			2.22	25

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

(LCS) R3810769-1 07/03/22 09:51 • (LCSD) R3810769-2 07/03/22 10:32

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	4.08	4.08	109	109	70.0-130			0.000	25
Carbon tetrachloride	3.75	4.21	4.20	112	112	70.0-130			0.238	25
Chlorobenzene	3.75	4.14	4.13	110	110	70.0-130			0.242	25
Chloroethane	3.75	4.26	4.25	114	113	70.0-130			0.235	25
Chloroform	3.75	4.09	4.11	109	110	70.0-130			0.488	25
Chloromethane	3.75	4.13	4.12	110	110	70.0-130			0.242	25
2-Chlorotoluene	3.75	4.20	4.19	112	112	70.0-130			0.238	25
Dibromochloromethane	3.75	4.14	4.12	110	110	70.0-130			0.484	25
1,2-Dibromoethane	3.75	4.10	4.08	109	109	70.0-130			0.489	25
1,2-Dichlorobenzene	3.75	4.20	4.21	112	112	70.0-130			0.238	25
1,3-Dichlorobenzene	3.75	4.36	4.36	116	116	70.0-130			0.000	25
1,4-Dichlorobenzene	3.75	3.69	3.70	98.4	98.7	70.0-130			0.271	25
1,2-Dichloroethane	3.75	4.05	4.05	108	108	70.0-130			0.000	25
1,1-Dichloroethane	3.75	4.18	4.22	111	113	70.0-130			0.952	25
1,1-Dichloroethene	3.75	4.19	4.16	112	111	70.0-130			0.719	25
cis-1,2-Dichloroethene	3.75	4.09	4.12	109	110	70.0-130			0.731	25
trans-1,2-Dichloroethene	3.75	4.11	4.09	110	109	70.0-130			0.488	25
1,2-Dichloropropane	3.75	4.09	4.12	109	110	70.0-130			0.731	25
cis-1,3-Dichloropropene	3.75	4.09	4.11	109	110	70.0-130			0.488	25
trans-1,3-Dichloropropene	3.75	4.21	4.15	112	111	70.0-130			1.44	25
1,4-Dioxane	3.75	3.78	3.77	101	101	70.0-140			0.265	25
Ethanol	3.75	3.87	3.93	103	105	55.0-148			1.54	25
Ethylbenzene	3.75	4.17	4.16	111	111	70.0-130			0.240	25
4-Ethyltoluene	3.75	4.22	4.21	113	112	70.0-130			0.237	25
Trichlorofluoromethane	3.75	4.20	4.21	112	112	70.0-130			0.238	25
Dichlorodifluoromethane	3.75	4.29	4.23	114	113	64.0-139			1.41	25
1,1,2-Trichlorotrifluoroethane	3.75	4.18	4.19	111	112	70.0-130			0.239	25
1,2-Dichlorotetrafluoroethane	3.75	4.21	4.24	112	113	70.0-130			0.710	25
Hexachloro-1,3-butadiene	3.75	3.99	3.93	106	105	70.0-151			1.52	25
Isopropylbenzene	3.75	4.11	4.08	110	109	70.0-130			0.733	25
Methylene Chloride	3.75	3.65	3.66	97.3	97.6	70.0-130			0.274	25
Methyl Butyl Ketone	3.75	4.14	4.11	110	110	70.0-149			0.727	25
Methyl Ethyl Ketone	3.75	4.24	4.17	113	111	70.0-130			1.66	25
4-Methyl-2-pentanone (MIBK)	3.75	4.18	4.15	111	111	70.0-139			0.720	25
Methyl Methacrylate	3.75	4.05	3.97	108	106	70.0-130			2.00	25
MTBE	3.75	4.15	4.15	111	111	70.0-130			0.000	25
Naphthalene	3.75	3.48	3.47	92.8	92.5	70.0-159			0.288	25
2-Propanol	3.75	3.94	3.95	105	105	70.0-139			0.253	25
Propene	3.75	4.04	4.02	108	107	64.0-144			0.496	25
Styrene	3.75	4.20	4.22	112	113	70.0-130			0.475	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3810769-1 07/03/22 09:51 • (LCSD) R3810769-2 07/03/22 10:32

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,2,2-Tetrachloroethane	3.75	4.01	4.01	107	107	70.0-130			0.000	25
Tetrachloroethylene	3.75	3.97	3.96	106	106	70.0-130			0.252	25
Tetrahydrofuran	3.75	4.04	4.05	108	108	70.0-137			0.247	25
Toluene	3.75	4.13	4.10	110	109	70.0-130			0.729	25
1,2,4-Trichlorobenzene	3.75	4.01	3.97	107	106	70.0-160			1.00	25
1,1,1-Trichloroethane	3.75	4.22	4.20	113	112	70.0-130			0.475	25
1,1,2-Trichloroethane	3.75	4.05	4.03	108	107	70.0-130			0.495	25
Trichloroethylene	3.75	4.03	4.03	107	107	70.0-130			0.000	25
1,2,4-Trimethylbenzene	3.75	4.23	4.20	113	112	70.0-130			0.712	25
1,3,5-Trimethylbenzene	3.75	4.21	4.21	112	112	70.0-130			0.000	25
2,2,4-Trimethylpentane	3.75	4.26	4.27	114	114	70.0-130			0.234	25
Vinyl chloride	3.75	4.08	4.12	109	110	70.0-130			0.976	25
Vinyl Bromide	3.75	4.13	4.10	110	109	70.0-130			0.729	25
Vinyl acetate	3.75	4.15	4.05	111	108	70.0-130			2.44	25
m&p-Xylene	7.50	8.36	8.33	111	111	70.0-130			0.359	25
o-Xylene	3.75	4.04	4.02	108	107	70.0-130			0.496	25
(S) 1,4-Bromofluorobenzene				98.2	98.1	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3811515-3 07/06/22 09:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
TPH (GC/MS) Low Fraction	49.3	J	39.7	200
(S) 1,4-Bromofluorobenzene	97.4			60.0-140

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

(LCS) R3811515-1 07/06/22 08:20 • (LCSD) R3811515-2 07/06/22 08:50

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	4.10	4.04	109	108	70.0-130			1.47	25
Heptane	3.75	3.36	3.27	89.6	87.2	70.0-130			2.71	25
TPH (GC/MS) Low Fraction	203	232	228	114	112	70.0-130			1.74	25
(S) 1,4-Bromofluorobenzene				98.9	99.0	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1510918-01](#)

Method Blank (MB)

(MB) R3812099-3 07/07/22 09:20

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	96.5			60.0-140

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

(LCS) R3812099-1 07/07/22 08:21 • (LCSD) R3812099-2 07/07/22 08:51

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	3.51	3.40	93.6	90.7	70.0-130			3.18	25
(S) 1,4-Bromofluorobenzene				98.1	98.3	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.

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.

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

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 ____ of ____  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 SNG # C006 Acctnum: ENSOLUMMTX Template: T180734 Prelogin: P827709 PM: 134 - Mark W. Beasley PB: Shipped Via:			
Report to: Beaux Jennings				Email To: bjennings@ensolum.com																			
Project Description: Levey Well				City/State Collected: Hobbs NM		Please Circle: PT MT CT ET																	
Phone: 210-219-8858		Client Project # 03B1417001		Lab Project # ENSOLUMMTX-SUMMA																			
Collected by (print): Shane Diller		Site/Facility ID # 03B1417001		P.O. # 03B1417001																			
Collected by (signature): _____		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☒ Three Day		Quote # Date Results Needed						No. of Cntrs													
Immediately Packed on Ice ☐ N ☒ X ☐ Y _____																							
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time																	
Levey Well		G	Air	~	6-29-22	1255	1	X											01				
N/A 6-29-22 SHD-200																							

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other _____

Remarks:

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier _____

Tracking # _____

Relinquished by: (Signature) _____
 Date: **6-30-22** Time: **9:14**

Relinquished by: (Signature) _____
 Date: **6/30/22** Time: **1700**

Relinquished by: (Signature) _____
 Date: _____ Time: _____

Received by: (Signature) **B**
 Trip Blank Received: Yes / No
 HCL / MeOH
 TBR

Received by: (Signature) **FedEx**
 Temp: _____ °C Bottles Received: _____

Received for lab by: (Signature) **D. Ramsey**
 Date: **7-1-22** Time: **900**

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N

COC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

If Applicable

VOA Zero Headspace: ☒ Y ☐ N

Preservation Correct/Checked: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

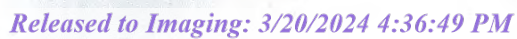
If preservation required by Login: Date/Time _____

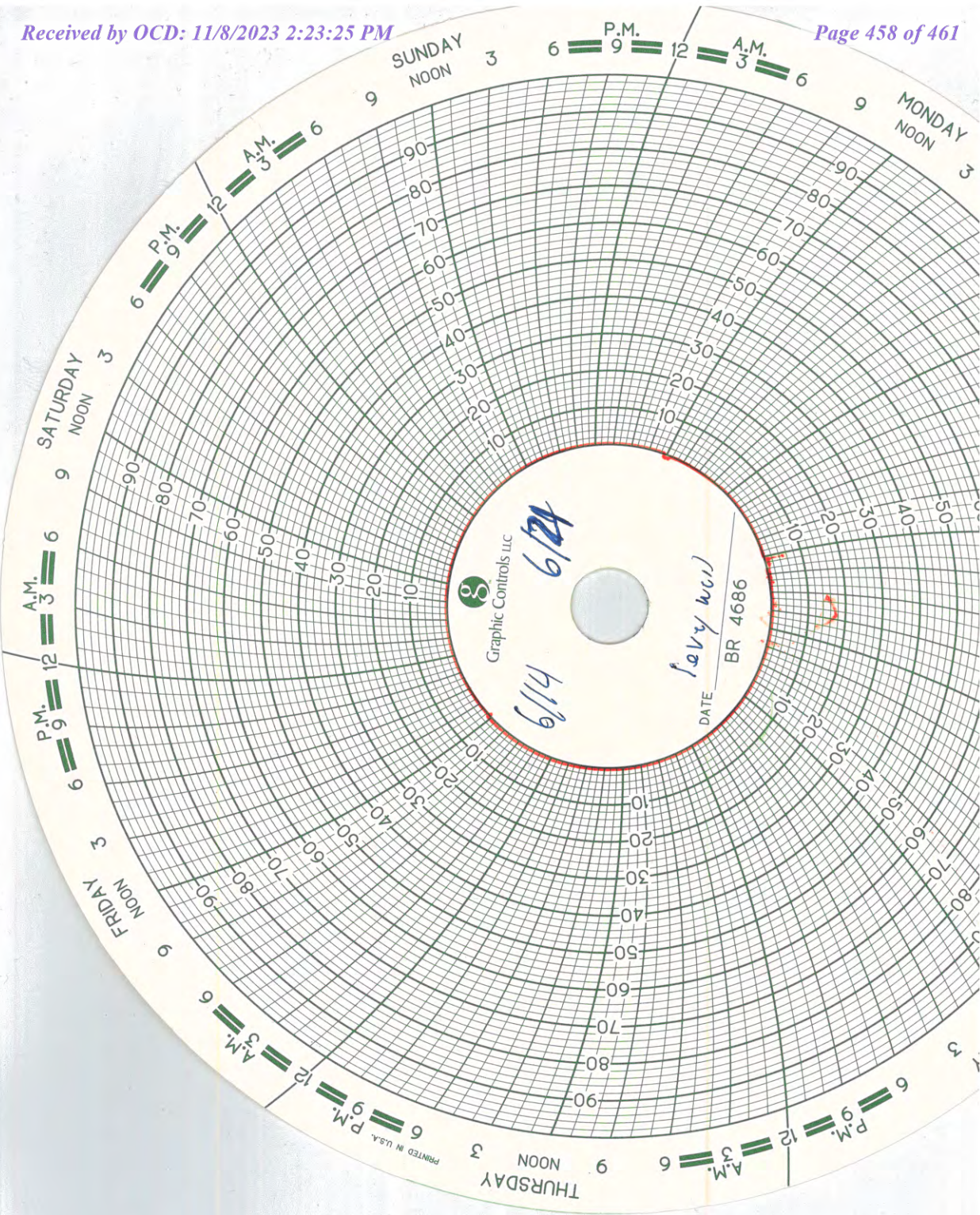
Hold: _____ Condition: **NCF / 08**

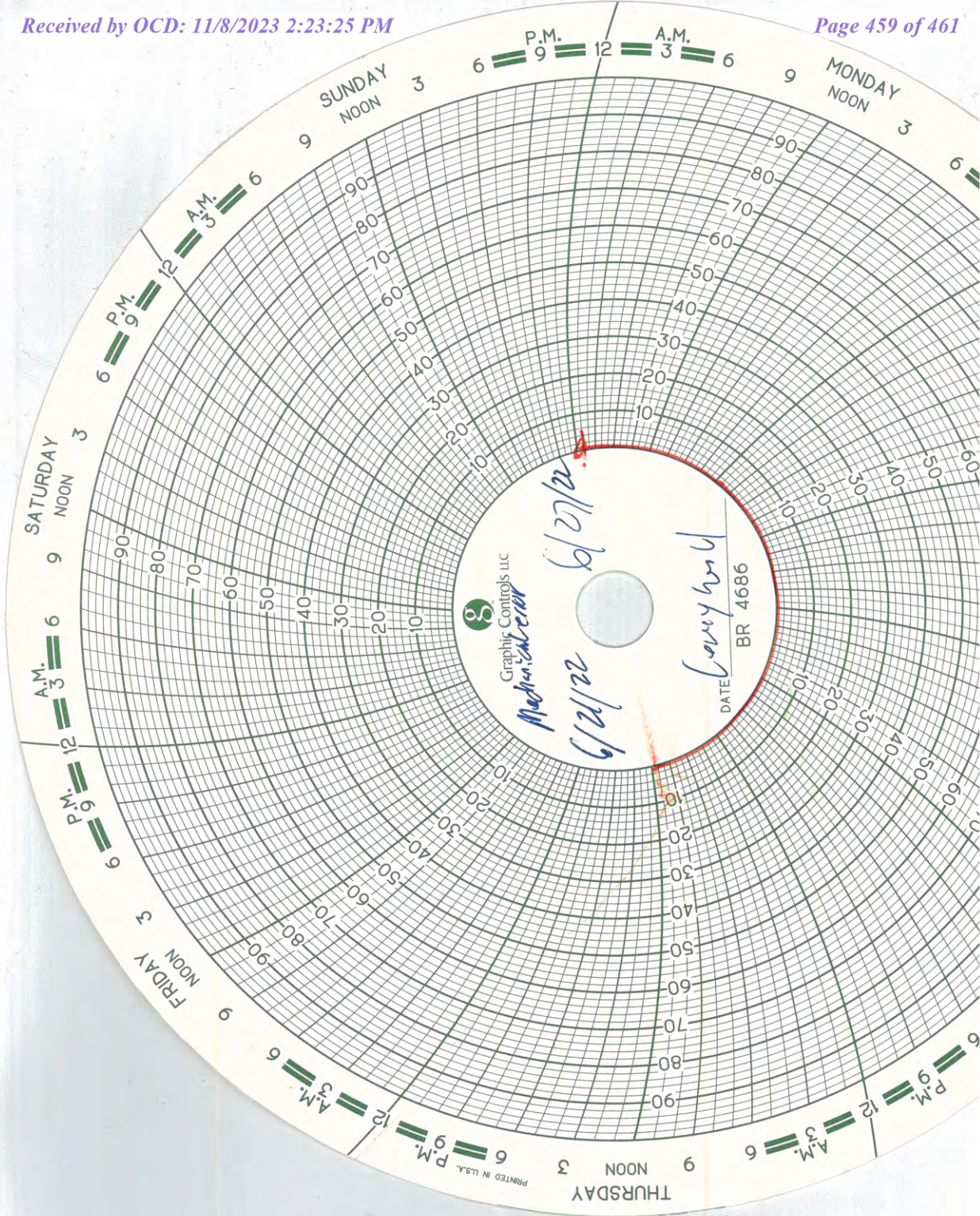


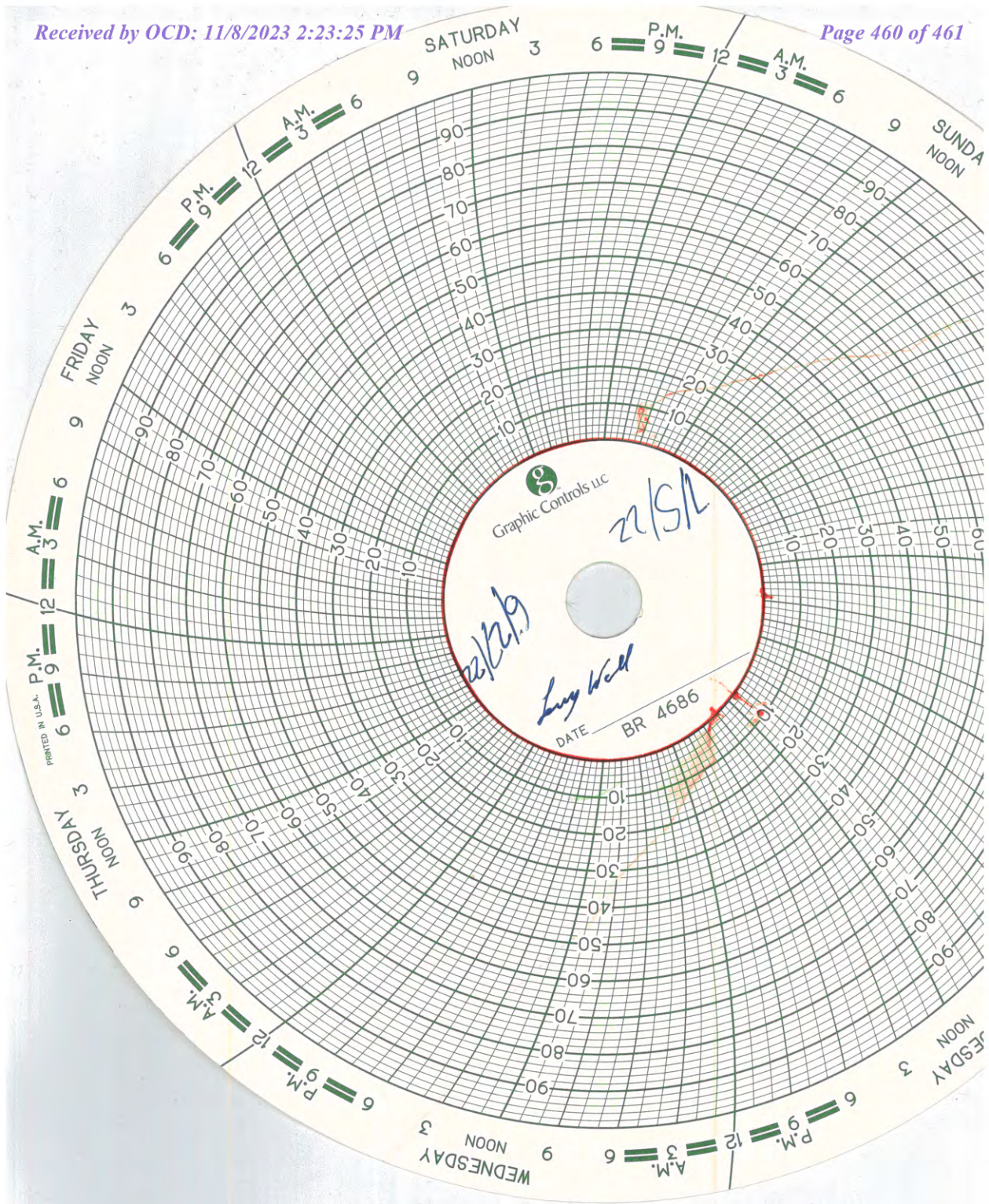
APPENDIX D

Levey Well Integrity Test 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 284040

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 284040
	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 - JUNE 2022 Property: South Hobbs G/SA Unit Unit F EMNRD OCD Order No. R-4934-F, Case No. 14981	3/20/2024