



GAS MITIGATION MONTHLY REPORT - JANUARY 2021

Property:

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

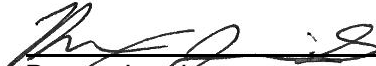
**New Mexico EMNRD OCD
Order No. R-4934-F, Case No. 14981**

March 1, 2022

Prepared for:

**Occidental Permian LTD
6001 Deauville Blvd.
Midland, Texas 79706
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Prepared by:


Beaux Jennings
Senior Project Manager

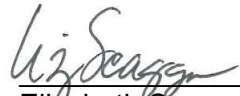

Elizabeth Scaggs
Principal



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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 - January 2022 summarizes activities subsequent to the *Gas Mitigation Monthly Report - November 2021*, dated December 14, 2021, and December 2021, dated January 20, 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.

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.

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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 January 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 January 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 0.000940 milligrams per liter (mg/L) to 0.00684 mg/L in the Levey Well and from 0.0205 mg/L to 0.0360 mg/L in monitoring well MW-2. However, the trendline shows benzene concentrations are decreasing overall in the Levey Well and monitoring well MW-2 during the duration of the air sampling events. Nitrite as N concentrations ranged from 0.608 mg/L to 1.47 mg/L in monitoring well MW-2. TDS analytical results ranged from 1,090 mg/L to 1,780 mg/L, which exceeds the applicable WQCC GQS of 1,000 mg/L. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). The groundwater analytical summary tables are included in **Appendix B**.

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

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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 1/26/2022, with no pressure observed in either monitoring well. The pressure reading charts available for January 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.

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.

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 January 1 - 31, 2022 was approximately 696,074 gallons. Prior to initiating the vacuum recovery events, it was noted that the flow meter on the Levey Well had been previously damaged. The flow meter was subsequently replaced by OXY personnel.

1.3 Gas Recovery – Levey Well

OXY conducted two (2) vacuum recovery events during the month of January 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 February 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 January 3 and 17, 2022 were taken prior to, during, and subsequent to each vacuum event utilizing a Summa[®] passivated 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 event. The vacuum is 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 is taken. The vacuum is then turned off and an additional air sample from the Levey Well is taken one (1) hour subsequent to each vacuum event. Water was not recovered during either vacuum event.

The Summa[®] canisters were shipped under proper chain-of-custody to Pace Analytical Laboratory in Mount Juliet, TN for analysis of volatile organic compounds (VOCs) by Method TO-15. Laboratory analytical results are summarized in **Table 4** in **Appendix B**. The executed chain-of-custody forms and laboratory data sheets from the January 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 runs full time and recovered groundwater is transferred via flowline to a nearby tank battery for proper disposal. Prior to sample collection, the Levey Well is turned off and allowed to stabilize for approximately one (1) hour prior to sampling. Once the Levey Well is properly purged and readings from the YSI Pro Plus stabilize, a groundwater sample is collected.

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

Monitoring Wells MW-1 and MW-2

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

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

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

The groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements during purging are taken every three (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 February 2022. Based on the concentrations observed in the Levey Well air samples, the vacuum events are drawing the free gas over to the Levey Well. Prior to each vacuum recovery event, an air sample is taken to give a representative snapshot of static conditions of gas in the subsurface. Elevated concentrations of acetone, cyclohexane, ethanol, heptane, n-hexane, 2-propanol, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, o-xylene and 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 into the vacuum recovery event. During each of the vacuum recovery events, acetone, cyclohexane, ethanol, heptane, n-hexane, 2-propanol, 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-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-propanol, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, o-xylene and TPH were observed inside the Levey water well casing. These results again indicate that the vacuum recovery events are successful in drawing the subsurface gas over to the Levey Well.

3.2 Groundwater Samples

Ensolum compared the laboratory analytical results or laboratory practical quantitation limits (PQLs) associated with the January 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 1,140 mg/L to 1,780 mg/L, which exceeds the applicable WQCC GQS of 1,000 mg/L. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three (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 and January 19, 2022, which had a benzene analytical result of 0.00684 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.

In addition, the chloride concentrations in the Levey Well have significantly decreased over time. As of September 21, 2021, chloride no longer exceeds the WQCC GQS of 250.0 mg/l.

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 0.0205 mg/L to 0.0360 mg/L, which exceed the WQCC GQS of 0.005 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. The groundwater samples collected from monitoring wells MW-1 and MW-2 did not exhibit chloride concentrations above the WQCC GQS of 250.0 mg/l.

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 over the next three (3) months:

- **Continue to remove free gas accumulations from the underlying red bed and groundwater-bearing zone as mechanically practical to do so, and to acceptable levels of removal to achieve compliance expectations;**
- **Continue to monitor the Levey Well and monitoring wells MW-1 and MW-2 weekly for significant changes in pressure, which could indicate a secondary source, until compliance of free gas removal is achieved;**
- **Once the proposed three (3) month weekly monitoring period is complete, OXY will request a revised monitoring program for the Site; and**
- **Based on verbal communication between OXY and NMOCD, the NMOCD approves OXY to re-start injection in South Hobbs G/SA Unit #290 production/injection well.**

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



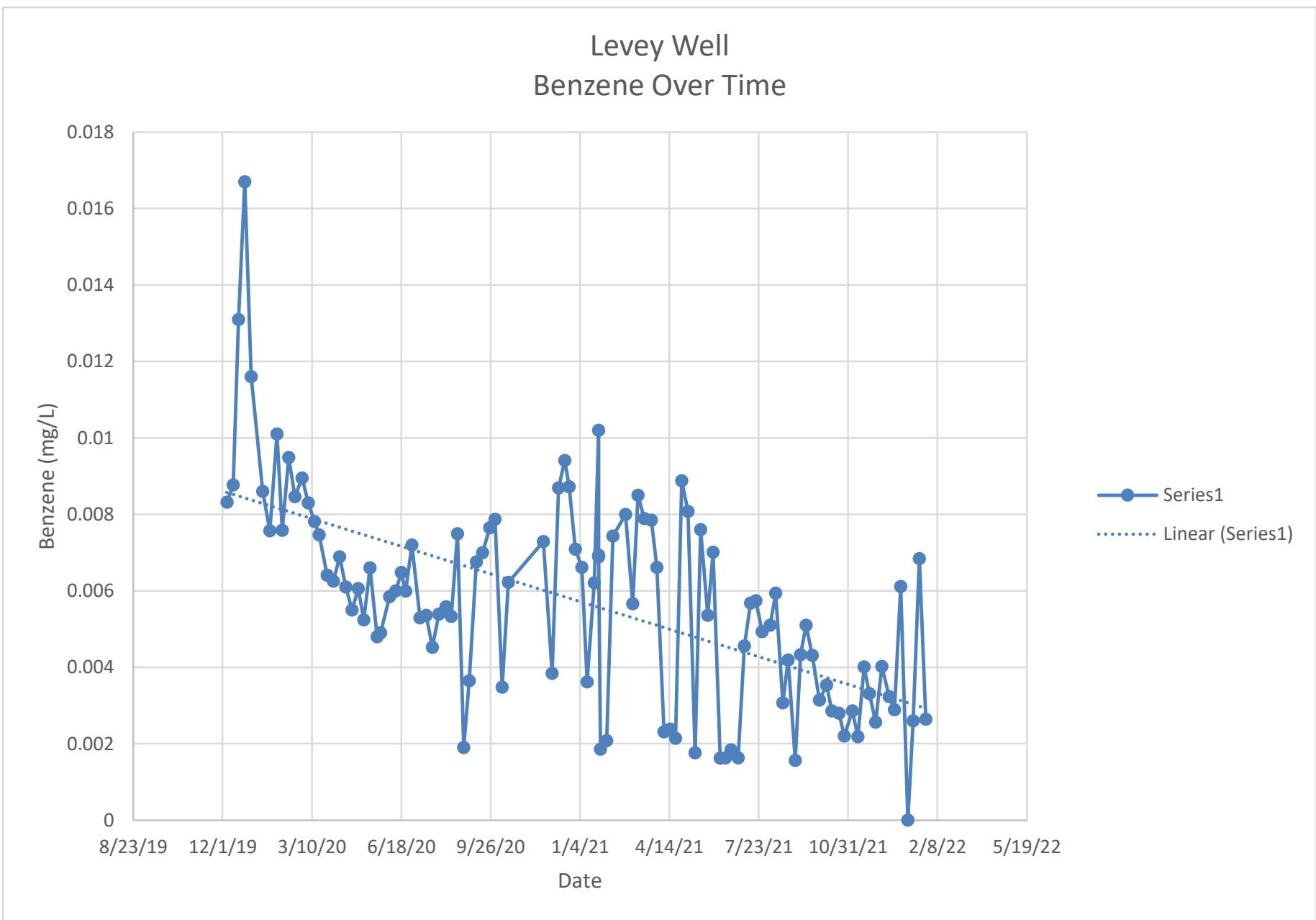
SITE MAP

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	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-isopropyltoluene)	1,2-Dichloroethane	cis-1,2-Dichloroethylene	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	0.1	NE	NE	NE	NE	0.005	NE	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	NA	<0.00100	<0.00100	0.00138	<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	NA	<0.00100	<0.00100	0.00112	<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	<0.000259	NA	<0.000214	<0.000183	0.00173	<0.000285	<0.000174	<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	NA	<0.00100	<0.00100	0.00183	<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	NA	<0.00100	<0.00100	0.00127	<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	NA	<0.00100	<0.00100	<0.00100	<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	NA	<0.00100	<0.00100	0.00180	<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	<0.0100	NA	0.0343	0.0344	<0.0100	<0.0100	<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	NA	<0.00100	<0.00100	0.00165	<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	NA	<0.00100	<0.00100	0.00251	<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	NA	<0.00100	<0.00100	0.00229	<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	NA	<0.00500	<0.00500	<0.00500	<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	NA	<0.00100	<0.00100	0.00254	<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	NA	<0.00100	<0.00100	0.00247	<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	NA	<0.00100	<0.00100	0.00224	<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	NA	<0.00100	<0.00100	0.00189	<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	NA	<0.00100	<0.00100	0.00209	<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	NA	<0.00100	<0.00100	0.00188	<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	NA	<0.00100	<0.00100	0.00175	<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	NA	<0.00100	<0.00100	0.00179	<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	NA	<0.00100	<0.00100	0.00159	<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	NA	<0.00100	<0.00100	0.00171	<0.00100	<0.00100	<0.00500	0.0138	<0.0100	0.0270	<0.00100	<0.0100	0.202	0.0582
	5/14/2020	0.00660	0.0357	0.0268	0.0141	0.0882	0.102	<0.0500	0.00236	0.00324	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00191	<0.00100	<0.00100	<0.00500	0.0165	<0.0100	0.0236	<0.00100	<0.00100	0.201	0.0453
	5/22/2020	0.00480	0.00851	0.0193	0.00896	0.0567	0.0657	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00194	<0.00100	<0.00100	<0.00500	0.0137	<0.0100	0.0276	<0.00100	<0.00100	0.187	0.0597
	5/26/2020	0.00490	0.0169	0.0210	0.0109	0.0637	0.0746	<0.0500	0.00122	0.00300	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00164	<0.00100	<0.00100	<0.00500	0.0138	<0.0100	0.0256	<0.00100	<0.00100	0.192	0.0532
	6/5/2020	0.00585	0.0317	0.0228	0.0117	0.0744	0.0861	<0.0500	0.00183	0.00271	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00155	<0.00100	<0.00100	<0.00500	0.0134	<0.0100	0.0182	<0.00100	<0.00100	0.129	0.0367
	6/12/2020	0.00600	0.0299	0.0231	0.0122	0.0757	0.0879	<0.0500	<0.00100	0.00283	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00154	<0.00100	<0.00100	<0.00500	0.0135	<0.0100	0.0211	<0.00100	<0.00100	0.150	0.0429
	6/18/2020	0.00648	0.0374	0.0236	0.0129	0.0818	0.0947	<0.0500	<0.00100	0.00256	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00100	<0.00500	0.0130	<0.0100	0.0162	<0.00100	<0.00100	0.121	0.0336
	6/23/2020	0.00599	0.0311	0.0232	0.011																					

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	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	cis-1,2-Dichloroethylene	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	0.1	NE	NE	NE	NE	0.005	NE	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well (cont')	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	NA	<0.00100	<0.00100	0.00140	<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	NA	<0.00100	<0.00100	0.00157	<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	NA	<0.00100	<0.00100	0.00159	<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	NA	<0.00100	<0.00100	0.00162	<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	NA	<0.00100	<0.00100	0.00145	<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	NA	<0.00100	<0.00100	0.00146	<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	NA	<0.00100	<0.00100	<0.00100	<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	NA	<0.00100	<0.00100	0.00101	<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	NA	<0.00100	<0.00100	0.00145	<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	NA	<0.00100	<0.00100	0.00142	<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	NA	<0.00100	<0.00100	0.00110	<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	NA	<0.00100	<0.00100	0.00176	<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	NA	<0.000214	<0.000183	0.00139	<0.000285	<0.000174	<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	<0.0100	<0.00100	<0.00100	0.00143	<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	<0.0100	0.00302	<0.000183	0.00144	<0.000244	<0.000174	<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	<0.0100	<0.00100	<0.00100	0.00103	<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	<0.0100	<0.00100	<0.00100	0.00109	<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	<0.000259	<0.000318	<0.000214	<0.000183	0.00103	<0.000285	<0.000174	<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	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000174	<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	<0.000259	<0.000318	<0.000214	<0.000183	0.00130	<0.000285	<0.000174	<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	<0.000259	<0.000318	<0.000214	<0.000183	0.000802 J	<0.000285	<0.000174	<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	<0.000259	<0.000318	<0.000214	<0.000183	0.00157	<0.000285	<0.000174	<0.000481	0.0146	<0.00200	0.00825	<0.000228	<0.000623	0.0403	0.0128
	5/27/2021	0.00536	0.0360	0.0206	0.0117	0.0657	0.0774	0.0139 J	<0.000286	<0.000199	<0.000195	<0.000259	<0.000318	<0.000214	<0.000183	0.00139	<0.000285	<0.000174	<0.000481	0.0111	<0.00200	0.00924	<0.000228	<0.000623	0.0483	0.0150
	6/2/2021	0.00701	0.0521	0.0258	0.0154	0.0906	0.106	<0.00270	<0.000286	0.00254	<0.000195	<0.000259	<0.000318	<0.000214	<0.000183	0.00160	<0.000285	<0.000174	<0.000481	0.0130	<0.00200	0.00800	<0.000228	<0.000623	0.0388	0.0128
	6/10/2021	0.00162	0.00304	0.00713	0.00221	0.0146	0.0168	<0.00270	<0.000286	<0.000199	<0.000195	0.00195	0.0126	<0.000214	<0.000183	0.000716 J	<0.000285	<0.000174	0.00516	0.00483	<0.00200	0.0109	<0.000228	<0.000623	0.0658	0.0195
	6/16/2021	0.00163	0.00240	0.00673	0.00204	0.0138	0.0158	<0.00270	<0.000286	0.00127	<0.000195	<0.000259	<0.000318	<0.000214	<0.000183	0.000757 J	<0.000285	<0.000174	<0.000481	0.00						

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	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	cis-1,2-Dichloroethylene	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	0.1	NE	NE	NE	NE	0.005	NE	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	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<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	NA	<0.00100	<0.00100	<0.00100	<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	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	0.00388	0.00175
	10/23/2020	0.00353	<0.000367	<0.000657	<0.000642	0.00246 J	0.00246																			
	11/24/2020	0.00241	<0.000500	0.000310 J	<0.000192	0.00133 J	0.001330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<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	<0.000259	NA	<0.000214	<0.000183	0.000270 J	<0.000285	<0.000174	<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	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	0.000230 J	<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	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<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	<0.000259	NA	<0.000214	<0.000183	0.000260 J	<0.000285	<0.000174	<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	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<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	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<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	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<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	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<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	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<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	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<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	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<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	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<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	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<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	<0.0100	<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	<0.000199	<0.000195	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.000980 J	0.000392 J
	4/8/2021	0.00128	<0.000500	0.000463 J	<0.000192	0.000985 J	0.000985 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<0.000481	0.000214 J	<0.00200	0.000271 J	<0.000228	<0.000162	0.00171	<0.000279
	4/15/2021	0.00124	<0.000500	0.000366 J	<0.000192	0.00140 J	0.00140 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.00185	<0.000279
	4/21/2021	0.00114	<0.000500	0.00114	<0.000192	0.00148 J	0.00148 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000174	<0.000481	0.000421 J	<0.00200	0.000338 J	<0.000228	<0.000623	0.00187	0.000711 J
	4/28/2021	0.00126	<0.000500	0.00116	<0.000192	0.00220 J	0.00220 J	<0.00270	<0.000286	0.000203 J	<0.000195	<0.000259	<0.000318	<0.000214	<0.000183	&										

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



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

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 (Cont.)	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	220	0.580	0.181	0.0834 J	41.7	286	56.4	4.50	85.1	1,140	706	<4.00	-1.64	6.4



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				



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															
	1/6/2021	NA	124	NA															
	1/12/2021	NA	141	NA										1,350	<4.00	NA	6.20		
	1/20/2021	NA	133	NA										1,360	<4.00	NA	6.12		
	1/27/2021	NA	140	NA										1,360	<4.00	NA	6.24		
	2/3/2021	NA	178	NA										1,390	<4.00	NA	6.17		
	2/10/2021	NA	133	NA										1,380	<4.00	NA	6.19		
	2/24/2021	NA	146	NA										1,370	<4.00	NA	6.17		
	3/4/2021	NA	166	NA										1,380	<4.00	NA	6.07		
	3/10/2021	NA	175	NA										1,390	<4.00	NA	6.14		
	3/17/2021	NA	163	NA										1,400	<4.00	NA	5.87		
	3/25/2021	NA	161	0.183 J	0.835	0.425	119	NA					1,420	<4.00	NA	6.5			
	3/31/2021	NA	102	0.299 J	0.714	1.13	99.9	NA					1,330	<4.00	NA	6.4			
	4/8/2021	NA	157	0.223 J	0.784	0.549	122	NA					1,430	<4.00	NA	6.2			
	4/15/2021	NA	136	0.255 J	0.711	0.683	115	NA					1,380	<4.00	NA	6.1			
	4/21/2021	NA	114	0.157 J	0.650	0.856	101	NA					1,340	<4.00	NA	6.1			
	4/28/2021	NA	155	0.178 J	0.692	0.511	118	NA					1,380	<4.00	NA	6.2			
	5/5/2021	NA	122	0.198 J	0.704	0.609	105	NA					1,350	<4.00	NA	6.3			
	5/13/2021	NA	104	0.199 J	0.686	1.02	98.3	NA					1,320	<4.00	NA	6.3			
	5/19/2021	NA	142	0.171 J	0.633	0.435	120	NA					1,370	<4.00	NA	6.2			
	5/27/2021	NA	147	0.206 J	0.689	0.889	120	NA					1,260	<4.00	NA	6.5			
	6/2/2021	NA	119	0.168 J	0.647	0.549	103	NA					1,250	<4.00	NA	6.2			
	6/10/2021	NA	151	0.252 J	0.714	2.77	123	NA					1,260	<4.00	NA	6.1			
	6/16/2021	NA	118	0.205 J	0.613	1.36	104	NA					1,208	<4.00	NA	6.5			
	6/22/2021	NA	122	0.171 J	0.593	0.969	105	NA					1,260	<4.00	NA	6.5			
	6/30/2021	NA	111	0.417 J	0.633	1.37	102	NA					1,230	<4.00	NA	6.4			
	7/1/2021		Levey Well Now Running Full Time																
	7/7/2021	NA	110	0.257 J	0.543	0.713	98.2	NA					1,120	<4.00	NA	6.4			
	7/14/2021	NA	187	0.233 J	0.752	0.797	124	NA					1,350	<4.00	NA	6.4			
	7/20/2021	NA	123	0.132 J	0.460	0.659	107	NA					1,280	<4.00	NA	6.3			
	7/27/2021	NA	113	0.134 J	0.607	0.516 J	100	NA					1,250	<4.00	NA	6.4			
	8/5/2021	NA	120	0.189 J	0.660	0.552	103	NA					1,200	<4.00	NA	6.5			
	8/11/2021	NA	115	0.181 J	0.624	3.02	101	NA					1,300	<4.00	NA	6.3			
	8/19/2021	NA	122	0.104 J	0.630	1.73	104	NA					1,290	<4.00	NA	6.4			
	8/25/2021	NA	122	0.191 J	0.639	0.603	103	NA					1,270	<4.00	NA	6.5			
	9/2/2021	NA	110	<0.100	0.536	0.595	98.1	NA					1,320	<4.00	NA	6.4			
	9/8/2021	NA	105	<0.100	0.540	0.590	97.3	NA					1,280	<4.00	NA	6.4			
	9/14/2021	NA	124	<0.100	0.542	0.386	107	NA					1,270	<4.00	NA	6.4			
	9/21/2021	NA	90.5	0.426 J	0.638	1.04	89.1	NA					1,250	<4.00	NA	6.3			
	9/29/2021	NA	133	0.245 J	0.631	0.982	117	NA					1,300	<4.00	NA	6.4			
	10/7/2021	NA	108	0.201 J	0.581	0.564	96.6	NA					1,280	<4.00	NA	6.4			
	10/13/2021	NA	178	0.140 J	0.734	0.507	131	NA					1,320	<4.00	NA	6.5			
	10/21/2021	NA	102	0.133 J	0.635	0.787	93.3	NA					1,270	<4.00	NA	6.5			
11/5/2021	NA	141	0.363 J	<0.0391	0.454	108	NA					1,250	<4.00	NA	6.6				
11/11/2021	NA	115	<0.100	0.677	0.374	97.6	NA					1,240	<4.00	NA	6.5				
11/18/2021	NA	103	<0.100	0.600	1.28	98.1	NA					1,140	<4.00	NA	6.6				
11/24/2021	NA	163	<0.500	0.680	0.539	127	NA					1,500	<4.00	NA	6.3				
12/1/2021	NA	120	0.148 J	0.604	0.511	103	NA					1,240	<4.00	NA	6.9				
12/8/2021	NA	188	<0.100	0.759	0.684	123	NA					1,250	<4.00	NA	6.3				
12/16/2021	NA	134	<0.100	0.529	<0.0293	113	NA					1,180	<4.00	NA	6.3				
12/22/2021	NA	163	<0.100	0.670	0.462	122	NA					1,280	<4.00	NA	6.4				
12/29/2021	NA	210	<0.100	1.02	0.415	115	NA					1,280	<4.00	NA	6.3				
1/6/2022	NA	106	<0.100	0.559	0.746	97.5	NA					1,300	<4.00	NA	6.4				
1/12/2022	NA	73.9	0.288 J	0.506	1.47	92.2	NA					1,150	<4.00	NA	6.2				
1/19/2022	NA	120	<0.100	0.591	0.757	104	NA					1,290	<4.00	NA	6.1				
1/26/2022	NA	120	<0.100	0.592	0.608	100	NA					1,270	<4.00	NA	6.1				

NOTES:
SU - standard units
mg/l - milligrams per liter
NE - not established
NA - not analyzed
J - The target analyte was positively identified below the quantitation limit and above the detection limit.
Concentrations highlighted in yellow exceed the NMAC Human Health Standards



TABLE 3 - GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY									
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		



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	1420	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		

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-Dichloroethane	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	1/25/2021	0823	229	<6.39	<7.76	9.52	<4.13	<10.3	575	<8.10	<7.93	324	<8.67	<9.82	<11.2	<17.0	299	980	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	22.2	<9.82	<9.82	<7.04	<17.3	<8.67	17,500
	1/25/2021	1213	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	2.01	<0.810	<0.793	4.98	<0.867	<0.982	<1.12	<17.0	1.44	3.20	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	<1.36	<0.590	<1.88	<1.09	<1.36	1.14	1.29	<0.704	<1.73	<0.867	<826
	1/28/2021	1316	14,800	<0.639	2.96	246	22.5	42.5	1,770	<0.810	<0.793	2,410	53.8	298	<1.12	2.03	1,220	2,890	150	<0.694	101	2,340	53.2	<0.819	<33.0	438	<0.851	72.6	<0.590	95.7	<1.09	<1.07	445	375	<0.704	246	147	61,100
	2/10/2021	1300	1,140	<12.8	<15.5	181	<8.26	<20.6	10,800	<16.2	<15.9	<23.8	44.2	426	<22.5	<19.8	4,040	14,000	92.4	<13.9	<102	79.0	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	66.3	<21.8	<21.4	334	584	<14.1	361	218	315,000
	2/24/2021	1045	<2.97	<0.639	<0.776	161	<0.413	<1.03	4,510	<0.810	9.83	<1.19	88.4	491	<1.12	<0.989	2,200	5,610	249	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	5.47	<0.590	101	<1.09	1.14	218	305	<0.704	633	388	114,000
	3/4/2021	1402	375	<3.19	<3.88	67.9	<2.07	<5.15	2,620	<4.05	<3.96	88.6	56.4	<4.91	<5.62	<4.95	847	4,690	176	<3.47	<25.6	72.0	<25.6	<4.09	22.8	<15.4	<4.25	<6.79	<2.95	49.3	<5.44	<5.36	1,460	913	<3.52	533	198	83,400
	3/10/2021	1050	<2.97	<0.639	<0.776	71.0	<0.413	<1.03	3,300	<0.810	<0.793	<1.19	61.1	1,070	1.26	<0.989	990	4,120	205	<0.694	<5.11	54.8	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	55.4	<1.09	<1.07	947	825	<0.704	516	249	120,000
	3/17/2021	1135	806	<0.639	<0.776	95.6	<0.413	<1.03	3,160	<0.810	<0.793	50.2	63.3	444	1.38	<0.989	1,240	4,550	128	<0.694	<5.11	139	<5.12	<0.819	<3.30	46.5	<0.851	<1.36	<0.590	101	<1.09	<1.07	332	313	<0.704	432	179	88,800
	3/25/2021	1111	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	11,700	<0.810	<0.793	41.3	65.9	<0.982	<1.12	<0.989	2,500	12,800	157	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	67.4	<1.09	<1.07	424	359	<0.704	382	205	256,000
	3/31/2021	1055	1,880	<0.639	<0.776	<0.622	<0.413	<1.03	22,300	<0.810	<0.793	96.3	78.0	185	<1.12	<0.982	4,420	24,000	150	<0.694	<5.11	244	<5.12	<0.819	<3.30	<3.07	<0.851	17.5	<0.590	73.1	9.57	<1.07	292	265	<0.704	352	193	305,000
	4/8/2021	1205	2,350	843	<311	<249	<165	<412	30,500	<324	<317	2,830	<347	736	<450	<396	<327	64,500	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	1,470	<340	<543	<236	<753	<435	<429	453	420	<282	737	<347	574,000
	4/15/2021	1228	1,200	<12.8	<15.5	97.7	<8.26	<20.6	41,000	<16.2	<15.9	98.0	91.9	447	<22.5	<19.8	4,950	98,000	134	<13.9	<102	206	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	101	<21.8	<21.4	197	198	<14.1	620	190	438,000
	4/21/2021	1340	639	<0.639	<0.776	<0.622	<0.413	<1.03	2,390	<0.810	<0.793	234	72.4	309	<1.12	<0.989	969	5,710	166	<0.694	<5.11	280	<5.12	<0.819	<3.30	127	<0.851	<1.36	<0.590	48.2	<1.09	<1.07	216	447	<0.704	296	225	<826
	4/28/2021	1215	1,210	<12.8	<15.5	134	<8.26	<20.6	6,650	<16.2	<15.9	343	129	1,540	<22.5	<19.8	<16.4	13,200	264	<13.9	<102	229	<102	<16.4	<66.0	143	<17.0	<27.2	<11.8	95.3	<21.8	<21.4	1,050	761	<14.1	954	313	261,000
	5/5/2021	1235	371	<12.5	<15.5	12.6	<8.26	<20.6	844	<16.2	<15.9	326	27.2	88.3	<22.5	<19.8	326	1,120	58.0	<13.9	<102	93.8	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	179	142	<14.1	185	65.0	273,000
	5/13/2021	1320	1,220	<12.8	<15.5	39.8	<8.26	<20.6	6,130	29.9	<15.9	456	88.4	545	<22.5	<19.8	2,300	7,300	228	<13.9	<102	226	<102	<16.4	<66.0	219	<17.0	<27.2	<11.8	62.5	<21.8	<21.4	1,230	756	<14.1	668	251	205,000
	5/19/2021	1445	1,700	<1.28	<1.55	<1.24	<0.826	<2.06	6,680	<1.62	<1.59	226	76.7	306	<2.25	<1.98	2,010	12,300	179	<1.39	122	200	<10.2	<1.64	<6.60	205	<1.70	<2.72	<1.18	50.5	<2.18	3.46	520	550	<1.41	577	195	175,000
	5/27/2021	1245	380	0.664	<0.776	<0.622	1.57	<1.03	1.14	<0.810	<0.793	6,130	3.68	7.07	1.51	2.64	9.98	157	<0.983	13.5	13.5	115	263	<0.819	<3.30	976	301	<1.36	149	86.3	<1.09	<1.07	15.4	4.37	<0.704	12.1	3.70	17,900
	6/2/2021	1220	1,280	<12.8	<15.5	<12.4	<8.26	<20.6	5,480	<16.2	<15.9	317	78.5	241	<22.5	<19.8	1,500	6,840	162	<13.9	<102	188	<102	<16.4	<66.0	125	<17.0	<27.2	<11.8	47.1	<21.8	<21.4	555	356	<14.1	542	174	179,000
	6/10/2021	1150	3,470	<12.8	<15.5	106	<8.26	<20.6	2,260	<16.2	<15.9	722	21.6	169	<22.5	<19.8	507	3,020	48.1	<13.9	<102	295	<102	<16.4	<66.0	234	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	89.3	73.1	<14.1	127	49.4	95,800
	6/16/2021	1217	2,160	<0.639	<0.776	43.0	<0.413	<1.03	806	<0.810	<0.793	609	17.9	145	<1.12	<0.989	308	1,670	32.2	<0.694	35.6	251	<5.12	<0.819	<3.30	201	<0.851	<1.36	<0.590	29.3	<1.09	<1.07	85.9	58.9	<0.704	88.9	34.4	32,400
	6/22/2021	1240	1,190	<6.39	<7.76	<6.22	<4.13	<10.3	2,440	<8.10	&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 (cont')	1/3/2022	0756	<297	<63.9	<77.6	<62.2	<41.3	<103	108,000	<81.0	<79.3	1,200	<86.7	<98.2	<112	<98.9	234,000	606,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	6,610	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	4,020,000
		0759	Initiate Vacuum Recovery Event																																			
		0823	<59.4	<12.8	<15.5	<12.4	407	<20.6	3,960	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	12,800	28,200	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	62.9	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	177,000
		0904	<14.9	<3.19	<3.88	<3.11	<2.07	<5.15	2,240	<4.05	<3.96	<11.8	<4.34	<4.91	<5.62	<4.95	6,130	17,800	<4.92	<3.47	<25.6	<18.4	<25.6	<4.09	<16.5	19.3	<4.25	<6.79	<2.95	<9.42	<5.44	<5.36	8.25	5.64	<3.52	<8.67	<4.34	101,000
		0920	Vacuum Recovery Event Terminated																																			
	1031	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	4,580	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	5,690	15,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	87.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	22.7	<19.6	<14.1	<34.7	<17.3	188,000	
	1/6/2022	0000	<297	<63.9	<77.6	<62.2	<41.3	<103	10,600	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	20,500	130,000	<98.3	110	<511	<369	<512	<81.9	<330	4,230	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	508,000
	1/12/2022	1352	31,400	<12.8	<15.5	<12.4	<8.26	<20.6	164,000	<16.2	<15.9	<47.1	115	491	<22.5	<19.8	342,000	1,680,000	98.8	<13.9	<102	5,570	<102	<16.4	85.9	81,900	<17.0	<27.2	<11.8	263	<21.8	<21.4	400	433	<14.1	341	156	6,820,000
	1/17/2022	0852	14,900	<639	<776	<622	<413	<1,030	119,000	<810	<793	<2,360	<867	<982	<1,120	<989	160,000	1,440,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	25,800	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	6,110,000
		0853	Initiate Vacuum Recovery Event																																			
		0919	227	<0.639	<0.776	<0.622	<0.413	<1.03	3,650	<0.810	<0.793	19.8	2.15	1.70	1.52	1.84	6,260	19,100	1.22	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	202	<0.851	<1.36	<0.590	8.32	<1.09	<1.07	2.84	2.87	<0.704	5.20	2.15	132,000
		1004	90.3	<0.639	<0.776	<0.622	1.30	<1.03	747	<0.810	<0.793	56.2	2.58	4.13	1.40	2.60	1,610	4,300	2.46	<0.694	<5.11	16.4	<5.12	<0.819	<3.30	114	<0.851	2.69	<0.590	15.6	<1.09	<1.07	11.5	8.44	<0.704	7.50	3.13	31,600
		1021	Vacuum Recovery Event Terminated																																			
	1134	466	<0.639	<0.776	<0.622	1.64	<1.03	2,400	<0.810	<0.793	16.8	5.42	9.67	1.38	2.14	4,620	10,800	5.26	<0.694	<5.11	54.3	<5.12	<0.819	3.42	494	<0.851	27.5	<0.590	23.8	<1.09	<1.07	20.8	18.7	<0.704	17.7	7.46	95,400	
	1/19/2022	1208	454	<31.9	<38.8	<31.1	<20.7	<51.5	11,300	<40.5	<39.6	149	<43.4	94.2	<56.2	<49.5	28,800	171,000	<49.2	<34.7	<256	<184	<256	966	<165	3,740	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	81.0	221	<35.2	<86.7	<43.4	508,000
	1/26/2022	1251	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	28,900	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	22,900	313,000	<22.5	<13.9	<102	<73.7	<102	<16.4	<66.0	248	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	1,180,000

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



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: 880-9933-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobb 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:
1/12/2022 2:10:41 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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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 Hobb NM - 03B1417001

Laboratory Job ID: 880-9933-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum

Job ID: 880-9933-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

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

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-9933-1
SDG: Hobbs NM

Glossary (Continued)

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

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

Case Narrative

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

Job ID: 880-9933-1
SDG: Hobbs NM

Job ID: 880-9933-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-9933-1**

Receipt

The sample was received on 1/6/2022 4:01 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC/MS VOA

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 860-36922 recovered outside control limits for the following analytes:Naphthalene.

Method 8260C: The matrix spike(MS) recoveries for the following sample associated with analytical batch 860-36922 were outside control limits: (880-9933-G-1 MS). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260C: The method blank for preparation batch MB 860-36922/9 contained 1,2-Dibromo-3-Chloropropane above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

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: Due to the high concentration of calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-36905 and analytical batch 860-36997 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 Hobb NM - 03B1417001

Job ID: 880-9933-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-9933-1

Date Collected: 01/06/22 08:32

Matrix: Water

Date Received: 01/06/22 16:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000940	J	0.00100	0.000214	mg/L		01/10/22 13:41	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		01/10/22 13:41	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		01/10/22 13:41	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		01/10/22 13:41	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		01/10/22 13:41	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		01/10/22 13:41	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		01/10/22 13:41	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		01/10/22 13:41	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		01/10/22 13:41	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		01/10/22 13:41	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		01/10/22 13:41	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		01/10/22 13:41	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		01/10/22 13:41	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		01/10/22 13:41	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		01/10/22 13:41	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		01/10/22 13:41	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		01/10/22 13:41	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		01/10/22 13:41	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		01/10/22 13:41	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		01/10/22 13:41	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		01/10/22 13:41	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		01/10/22 13:41	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		01/10/22 13:41	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		01/10/22 13:41	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		01/10/22 13:41	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		01/10/22 13:41	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		01/10/22 13:41	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		01/10/22 13:41	1
2,2-Dichloropropane	<0.000360	U F1	0.00500	0.000360	mg/L		01/10/22 13:41	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		01/10/22 13:41	1
Ethylbenzene	0.00394		0.00100	0.000515	mg/L		01/10/22 13:41	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		01/10/22 13:41	1
Isopropylbenzene	0.00213		0.00100	0.000161	mg/L		01/10/22 13:41	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		01/10/22 13:41	1
m,p-Xylenes	0.0134	F1	0.0100	0.000330	mg/L		01/10/22 13:41	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		01/10/22 13:41	1
Naphthalene	<0.00200	U *1	0.0100	0.00200	mg/L		01/10/22 13:41	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		01/10/22 13:41	1
N-Propylbenzene	0.00127		0.00100	0.000179	mg/L		01/10/22 13:41	1
o-Xylene	0.00181		0.00100	0.000192	mg/L		01/10/22 13:41	1
p-Cymene (p-Isopropyltoluene)	0.000397	J	0.00100	0.000233	mg/L		01/10/22 13:41	1
sec-Butylbenzene	0.000577	J	0.00100	0.000199	mg/L		01/10/22 13:41	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		01/10/22 13:41	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		01/10/22 13:41	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		01/10/22 13:41	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		01/10/22 13:41	1
Tetrachloroethene	0.000654	J	0.00100	0.000500	mg/L		01/10/22 13:41	1
Toluene	0.00568		0.00100	0.000500	mg/L		01/10/22 13:41	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		01/10/22 13:41	1

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Client Sample Results

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

Job ID: 880-9933-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-9933-1

Date Collected: 01/06/22 08:32

Matrix: Water

Date Received: 01/06/22 16:01

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			01/10/22 13:41	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 13:41	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 13:41	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/10/22 13:41	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/10/22 13:41	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/10/22 13:41	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/10/22 13:41	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/10/22 13:41	1
1,2,4-Trimethylbenzene	0.0168		0.00100	0.000252 mg/L			01/10/22 13:41	1
1,3,5-Trimethylbenzene	0.00498		0.00100	0.000279 mg/L			01/10/22 13:41	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/10/22 13:41	1
Xylenes, Total	0.0152	F1	0.0100	0.000330 mg/L			01/10/22 13:41	1
Total BTEX	0.0258		0.0100	0.00100 mg/L			01/10/22 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		01/10/22 13:41	1
Dibromofluoromethane (Surr)	100		75 - 131		01/10/22 13:41	1
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		01/10/22 13:41	1
Toluene-d8 (Surr)	98		80 - 117		01/10/22 13:41	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.386	J	0.500	0.0711 mg/L			01/07/22 22:07	1
Nitrate as N	0.182		0.100	0.0391 mg/L			01/07/22 22:07	1
Chloride	226		0.500	0.200 mg/L			01/07/22 22:07	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/07/22 22:07	1
Fluoride	0.500		0.500	0.100 mg/L			01/07/22 22:07	1
Sulfate	42.7		0.500	0.109 mg/L			01/07/22 22:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	278		10.0	1.47 mg/L		01/10/22 09:00	01/10/22 14:35	50
Magnesium	52.9		0.200	0.0500 mg/L		01/10/22 09:00	01/10/22 14:17	1
Potassium	4.11		0.500	0.107 mg/L		01/10/22 09:00	01/10/22 14:17	1
Sodium	79.0		0.500	0.0667 mg/L		01/10/22 09:00	01/10/22 14:17	1
SiO2	63.5		1.07	0.0781 mg/L		01/10/22 09:00	01/10/22 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-4.09			%			01/12/22 10:30	1
Alkalinity	711		4.00	4.00 mg/L			01/11/22 14:26	1
Bicarbonate Alkalinity as CaCO3	711		4.00	4.00 mg/L			01/11/22 14:26	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/11/22 14:26	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			01/11/22 14:26	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			01/11/22 14:26	1
Total Dissolved Solids	1650		20.0	20.0 mg/L			01/10/22 08:51	1
pH	6.4	HF		SU			01/07/22 15:50	1
Temperature	18.2	HF		Celsius			01/07/22 15:50	1

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Surrogate Summary

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

Job ID: 880-9933-1
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)
880-9933-1	Levey Well	101	100	98	98
880-9933-1 MS	Levey Well	100	103	100	99
LCS 860-36922/28	Lab Control Sample	100	102	99	98
LCSD 860-36922/4	Lab Control Sample Dup	98	101	99	98
MB 860-36922/9	Method Blank	101	100	101	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

Job ID: 880-9933-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

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

Lab Sample ID: MB 860-36922/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 36922

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			01/10/22 13:20	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/10/22 13:20	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/10/22 13:20	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/10/22 13:20	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/10/22 13:20	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/10/22 13:20	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/10/22 13:20	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/10/22 13:20	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/10/22 13:20	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/10/22 13:20	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/10/22 13:20	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/10/22 13:20	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/10/22 13:20	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/10/22 13:20	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/10/22 13:20	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/10/22 13:20	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/10/22 13:20	1
1,2-Dibromo-3-Chloropropane	0.002551	J	0.00500	0.000319 mg/L			01/10/22 13:20	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/10/22 13:20	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/10/22 13:20	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/10/22 13:20	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/10/22 13:20	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/10/22 13:20	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/10/22 13:20	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/10/22 13:20	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/10/22 13:20	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/10/22 13:20	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/10/22 13:20	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/10/22 13:20	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/10/22 13:20	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/10/22 13:20	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 13:20	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			01/10/22 13:20	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/10/22 13:20	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/10/22 13:20	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/10/22 13:20	1
Naphthalene	0.002558	J	0.0100	0.00200 mg/L			01/10/22 13:20	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/10/22 13:20	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/10/22 13:20	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/10/22 13:20	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/10/22 13:20	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/10/22 13:20	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/10/22 13:20	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/10/22 13:20	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/10/22 13:20	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/10/22 13:20	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/10/22 13:20	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/10/22 13:20	1

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QC Sample Results

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

Job ID: 880-9933-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-36922/9

Matrix: Water

Analysis Batch: 36922

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			01/10/22 13:20	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/10/22 13:20	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 13:20	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 13:20	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/10/22 13:20	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/10/22 13:20	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/10/22 13:20	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/10/22 13:20	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/10/22 13:20	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/10/22 13:20	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/10/22 13:20	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/10/22 13:20	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/10/22 13:20	1
Total BTEX	<0.00100	U	0.0100	0.00100 mg/L			01/10/22 13:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		01/10/22 13:20	1
Dibromofluoromethane (Surr)	100		75 - 131		01/10/22 13:20	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		01/10/22 13:20	1
Toluene-d8 (Surr)	99		80 - 117		01/10/22 13:20	1

Lab Sample ID: LCS 860-36922/28

Matrix: Water

Analysis Batch: 36922

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	0.05563		mg/L		111	66 - 142
Bromobenzene	0.0500	0.05253		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05670		mg/L		113	60 - 140
Bromodichloromethane	0.0500	0.05637		mg/L		113	75 - 125
Bromoform	0.0500	0.05346		mg/L		107	75 - 125
Bromomethane	0.0500	0.04097		mg/L		82	60 - 140
2-Butanone	0.250	0.2525		mg/L		101	60 - 140
Carbon tetrachloride	0.0500	0.05694		mg/L		114	62 - 125
Chlorobenzene	0.0500	0.05343		mg/L		107	60 - 133
Chloroethane	0.0500	0.04924		mg/L		98	60 - 140
Chloroform	0.0500	0.05748		mg/L		115	70 - 130
Chloromethane	0.0500	0.04657		mg/L		93	60 - 140
2-Chlorotoluene	0.0500	0.05360		mg/L		107	73 - 125
4-Chlorotoluene	0.0500	0.05292		mg/L		106	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05756		mg/L		115	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05538		mg/L		111	74 - 125
Dibromochloromethane	0.0500	0.05401		mg/L		108	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04541		mg/L		91	59 - 125
1,2-Dibromoethane	0.0500	0.05311		mg/L		106	73 - 125
1,2-Dichlorobenzene	0.0500	0.05137		mg/L		103	75 - 125
1,3-Dichlorobenzene	0.0500	0.05224		mg/L		104	75 - 125
1,4-Dichlorobenzene	0.0500	0.04996		mg/L		100	75 - 125

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QC Sample Results

Client: Ensolum

Job ID: 880-9933-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-36922/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 36922

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05329		mg/L		107	66 - 142	4	25
Bromobenzene	0.0500	0.05172		mg/L		103	75 - 125	2	25
Bromochloromethane	0.0500	0.05397		mg/L		108	60 - 140	5	25
Bromodichloromethane	0.0500	0.05468		mg/L		109	75 - 125	3	25
Bromoform	0.0500	0.05568		mg/L		111	75 - 125	4	25
Bromomethane	0.0500	0.03939		mg/L		79	60 - 140	4	25
2-Butanone	0.250	0.2600		mg/L		104	60 - 140	3	25
Carbon tetrachloride	0.0500	0.05400		mg/L		108	62 - 125	5	25
Chlorobenzene	0.0500	0.05227		mg/L		105	60 - 133	2	25
Chloroethane	0.0500	0.04620		mg/L		92	60 - 140	6	25
Chloroform	0.0500	0.05448		mg/L		109	70 - 130	5	25
Chloromethane	0.0500	0.04440		mg/L		89	60 - 140	5	25
2-Chlorotoluene	0.0500	0.05105		mg/L		102	73 - 125	5	25
4-Chlorotoluene	0.0500	0.05112		mg/L		102	74 - 125	3	25
cis-1,2-Dichloroethene	0.0500	0.05418		mg/L		108	75 - 125	6	25
cis-1,3-Dichloropropene	0.0500	0.05350		mg/L		107	74 - 125	3	25
Dibromochloromethane	0.0500	0.05409		mg/L		108	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05154		mg/L		103	59 - 125	13	25
1,2-Dibromoethane	0.0500	0.05379		mg/L		108	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05076		mg/L		102	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.05083		mg/L		102	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.04916		mg/L		98	75 - 125	2	25
Dichlorodifluoromethane	0.0500	0.04309		mg/L		86	70 - 130	9	25
1,1-Dichloroethane	0.0500	0.05529		mg/L		111	72 - 125	5	25
1,2-Dichloroethane	0.0500	0.05302		mg/L		106	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.05387		mg/L		108	59 - 172	9	25
1,2-Dichloropropane	0.0500	0.05489		mg/L		110	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.05313		mg/L		106	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05939		mg/L		119	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.05460		mg/L		109	75 - 125	6	25
Ethylbenzene	0.0500	0.05315		mg/L		106	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05178		mg/L		104	75 - 125	4	25
Isopropylbenzene	0.0500	0.05366		mg/L		107	75 - 125	3	25
Methylene Chloride	0.0500	0.05154		mg/L		103	75 - 125	7	25
m,p-Xylenes	0.0500	0.05294		mg/L		106	75 - 125	4	25
MTBE	0.0500	0.05497		mg/L		110	65 - 135	1	25
Naphthalene	0.0500	0.05544	*1	mg/L		111	70 - 130	27	25
n-Butylbenzene	0.0500	0.05160		mg/L		103	75 - 125	2	25
N-Propylbenzene	0.0500	0.05154		mg/L		103	75 - 125	5	25
o-Xylene	0.0500	0.05361		mg/L		107	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05110		mg/L		102	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05164		mg/L		103	75 - 125	4	25
Styrene	0.0500	0.05346		mg/L		107	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05125		mg/L		102	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.05486		mg/L		110	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05159		mg/L		103	74 - 125	1	25
Tetrachloroethene	0.0500	0.05394		mg/L		108	71 - 125	4	25
Toluene	0.0500	0.05296		mg/L		106	59 - 139	2	25

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QC Sample Results

Client: Ensolum

Job ID: 880-9933-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-36922/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 36922

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.05391		mg/L		108	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.05405		mg/L		108	66 - 125	0	25
1,2,3-Trichlorobenzene	0.0500	0.05504		mg/L		110	75 - 137	23	25
1,2,4-Trichlorobenzene	0.0500	0.05402		mg/L		108	75 - 135	13	25
1,1,1-Trichloroethane	0.0500	0.05497		mg/L		110	75 - 125	6	25
1,1,2-Trichloroethane	0.0500	0.05382		mg/L		108	75 - 127	0	25
Trichloroethene	0.0500	0.05395		mg/L		108	62 - 137	6	25
Trichlorofluoromethane	0.0500	0.04629		mg/L		93	60 - 140	8	25
1,2,3-Trichloropropane	0.0500	0.05316		mg/L		106	75 - 125	4	25
1,2,4-Trimethylbenzene	0.0500	0.05083		mg/L		102	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.05090		mg/L		102	60 - 140	5	25
Vinyl chloride	0.0500	0.04445		mg/L		89	60 - 140	7	25

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

Lab Sample ID: 880-9933-1 MS

Client Sample ID: Levey Well

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 36922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.000940	J	0.0500	0.05815		mg/L		114	66 - 142
Bromobenzene	<0.000300	U	0.0500	0.05501		mg/L		110	75 - 125
Bromochloromethane	<0.000209	U	0.0500	0.05424		mg/L		108	60 - 140
Bromodichloromethane	<0.000231	U	0.0500	0.05736		mg/L		115	75 - 125
Bromoform	<0.000630	U	0.0500	0.05480		mg/L		110	75 - 125
Bromomethane	<0.00105	U	0.0500	0.03963		mg/L		79	60 - 140
2-Butanone	<0.00270	U	0.250	0.2386		mg/L		95	60 - 140
Carbon tetrachloride	<0.000423	U	0.0500	0.05621		mg/L		112	62 - 125
Chlorobenzene	<0.000159	U	0.0500	0.05527		mg/L		111	60 - 133
Chloroethane	<0.000433	U	0.0500	0.04856		mg/L		97	60 - 140
Chloroform	<0.000259	U	0.0500	0.05690		mg/L		114	70 - 130
Chloromethane	<0.000318	U	0.0500	0.03857		mg/L		77	60 - 140
2-Chlorotoluene	<0.000214	U	0.0500	0.05693		mg/L		114	73 - 125
4-Chlorotoluene	<0.000183	U	0.0500	0.05592		mg/L		112	74 - 125
cis-1,2-Dichloroethene	<0.000174	U	0.0500	0.05704		mg/L		114	75 - 125
cis-1,3-Dichloropropene	<0.000690	U	0.0500	0.05688		mg/L		114	74 - 125
Dibromochloromethane	<0.000739	U	0.0500	0.05500		mg/L		110	73 - 125
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.0500	0.04901		mg/L		98	59 - 125
1,2-Dibromoethane	<0.000337	U	0.0500	0.05365		mg/L		107	73 - 125
1,2-Dichlorobenzene	<0.000236	U	0.0500	0.05392		mg/L		108	75 - 125
1,3-Dichlorobenzene	<0.000197	U	0.0500	0.05510		mg/L		110	75 - 125
1,4-Dichlorobenzene	<0.000199	U	0.0500	0.05264		mg/L		105	75 - 125
Dichlorodifluoromethane	<0.000316	U	0.0500	0.04550		mg/L		91	70 - 130
1,1-Dichloroethane	<0.000244	U	0.0500	0.05753		mg/L		115	72 - 125

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QC Sample Results

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

Job ID: 880-9933-1
SDG: Hobbs NM

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

Lab Sample ID: 880-9933-1 MS

Matrix: Water

Analysis Batch: 36922

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	<0.000285	U	0.0500	0.05443		mg/L		109	68 - 127
1,1-Dichloroethene	<0.000216	U	0.0500	0.05815		mg/L		116	59 - 172
1,2-Dichloropropane	<0.000396	U	0.0500	0.05798		mg/L		116	74 - 125
1,3-Dichloropropane	<0.000439	U	0.0500	0.05384		mg/L		108	75 - 125
2,2-Dichloropropane	<0.000360	U F1	0.0500	0.06345	F1	mg/L		127	75 - 125
1,1-Dichloropropene	<0.000481	U	0.0500	0.05835		mg/L		117	75 - 125
Ethylbenzene	0.00394		0.0500	0.06534		mg/L		123	75 - 125
Hexachlorobutadiene	<0.00200	U	0.0500	0.05634		mg/L		113	75 - 125
Isopropylbenzene	0.00213		0.0500	0.06103		mg/L		118	75 - 125
Methylene Chloride	<0.00191	U	0.0500	0.05347		mg/L		107	75 - 125
m,p-Xylenes	0.0134	F1	0.0500	0.08745	F1	mg/L		148	75 - 125
MTBE	<0.000571	U	0.0500	0.05377		mg/L		108	65 - 135
Naphthalene	<0.00200	U *1	0.0500	0.05324		mg/L		106	70 - 130
n-Butylbenzene	<0.000286	U	0.0500	0.05664		mg/L		113	75 - 125
N-Propylbenzene	0.00127		0.0500	0.05854		mg/L		115	75 - 125
o-Xylene	0.00181		0.0500	0.06087		mg/L		118	75 - 125
p-Cymene (p-Isopropyltoluene)	0.000397	J	0.0500	0.05618		mg/L		112	75 - 125
sec-Butylbenzene	0.000577	J	0.0500	0.05733		mg/L		113	75 - 125
Styrene	<0.000623	U	0.0500	0.05606		mg/L		112	75 - 125
tert-Butylbenzene	<0.000195	U	0.0500	0.05605		mg/L		112	75 - 125
1,1,1,2-Tetrachloroethane	<0.000327	U	0.0500	0.05755		mg/L		115	72 - 125
1,1,2,2-Tetrachloroethane	<0.000284	U	0.0500	0.05193		mg/L		104	74 - 125
Tetrachloroethene	0.000654	J	0.0500	0.05907		mg/L		117	71 - 125
Toluene	0.00568		0.0500	0.07146		mg/L		132	59 - 139
trans-1,2-Dichloroethene	<0.000256	U	0.0500	0.05629		mg/L		113	75 - 125
trans-1,3-Dichloropropene	<0.000752	U	0.0500	0.05581		mg/L		112	66 - 125
1,2,3-Trichlorobenzene	<0.00200	U	0.0500	0.05561		mg/L		111	75 - 137
1,2,4-Trichlorobenzene	<0.00200	U	0.0500	0.05583		mg/L		112	75 - 135
1,1,1-Trichloroethane	<0.000504	U	0.0500	0.05880		mg/L		118	75 - 125
1,1,2-Trichloroethane	<0.000228	U	0.0500	0.05537		mg/L		111	75 - 127
Trichloroethene	<0.000424	U	0.0500	0.05838		mg/L		117	62 - 137
Trichlorofluoromethane	<0.000245	U	0.0500	0.05057		mg/L		101	60 - 140
1,2,3-Trichloropropane	<0.000283	U	0.0500	0.05187		mg/L		104	75 - 125
1,2,4-Trimethylbenzene	0.0168		0.0500	0.07442		mg/L		115	75 - 125
1,3,5-Trimethylbenzene	0.00498		0.0500	0.06138		mg/L		113	70 - 125
Vinyl chloride	<0.000234	U	0.0500	0.04665		mg/L		93	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		74 - 124						
Dibromofluoromethane (Surr)	103		75 - 131						
1,2-Dichloroethane-d4 (Surr)	100		63 - 144						
Toluene-d8 (Surr)	99		80 - 117						

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QC Sample Results

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

Job ID: 880-9933-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-36780/140

Matrix: Water

Analysis Batch: 36780

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			01/07/22 16:39	1
Chloride	<0.200	U	0.500	0.200 mg/L			01/07/22 16:39	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/07/22 16:39	1
Sulfate	<0.109	U	0.500	0.109 mg/L			01/07/22 16:39	1

Lab Sample ID: MB 860-36780/152

Matrix: Water

Analysis Batch: 36780

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			01/07/22 21:29	1
Chloride	<0.200	U	0.500	0.200 mg/L			01/07/22 21:29	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/07/22 21:29	1
Sulfate	<0.109	U	0.500	0.109 mg/L			01/07/22 21:29	1

Lab Sample ID: LCS 860-36780/141

Matrix: Water

Analysis Batch: 36780

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	9.918		mg/L		99	90 - 110
Chloride	10.0	10.20		mg/L		102	90 - 110
Fluoride	10.0	10.23		mg/L		102	90 - 110
Sulfate	10.0	10.08		mg/L		101	90 - 110

Lab Sample ID: LCS 860-36780/153

Matrix: Water

Analysis Batch: 36780

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	9.740		mg/L		97	90 - 110
Chloride	10.0	10.15		mg/L		101	90 - 110
Fluoride	10.0	10.24		mg/L		102	90 - 110
Sulfate	10.0	9.936		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-36780/142

Matrix: Water

Analysis Batch: 36780

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	9.927		mg/L		99	90 - 110	0	20
Chloride	10.0	10.25		mg/L		102	90 - 110	0	20
Fluoride	10.0	10.24		mg/L		102	90 - 110	0	20
Sulfate	10.0	10.09		mg/L		101	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-9933-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-36780/154

Matrix: Water

Analysis Batch: 36780

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Bromide	10.0	9.749		mg/L		97	90 - 110		0	20
Chloride	10.0	10.20		mg/L		102	90 - 110		0	20
Fluoride	10.0	10.19		mg/L		102	90 - 110		0	20
Sulfate	10.0	9.966		mg/L		100	90 - 110		0	20

Lab Sample ID: MB 860-36781/140

Matrix: Water

Analysis Batch: 36781

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			01/07/22 16:39	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/07/22 16:39	1

Lab Sample ID: MB 860-36781/152

Matrix: Water

Analysis Batch: 36781

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			01/07/22 21:29	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/07/22 21:29	1

Lab Sample ID: LCS 860-36781/141

Matrix: Water

Analysis Batch: 36781

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	9.945		mg/L		99	80 - 120	
Nitrite as N	5.00	4.777		mg/L		96	80 - 120	

Lab Sample ID: LCS 860-36781/153

Matrix: Water

Analysis Batch: 36781

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	9.894		mg/L		99	80 - 120	
Nitrite as N	5.00	4.736		mg/L		95	80 - 120	

Lab Sample ID: LCSD 860-36781/142

Matrix: Water

Analysis Batch: 36781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

				Spike	LCSD	LCSD				%Rec.	RPD	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N				10.0	9.955		mg/L		100	80 - 120	0	20
Nitrite as N				5.00	4.765		mg/L		95	80 - 120	0	20

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QC Sample Results

Client: Ensolum

Job ID: 880-9933-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-36781/154

Matrix: Water

Analysis Batch: 36781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N			10.0	9.923		mg/L		99	80 - 120	0	20
Nitrite as N			5.00	4.733		mg/L		95	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-36905/1-A

Matrix: Water

Analysis Batch: 36997

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 36905

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Calcium	<0.0293	U	0.200	0.0293 mg/L		01/10/22 09:00	01/10/22 14:07	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		01/10/22 09:00	01/10/22 14:07	1
Potassium	<0.107	U	0.500	0.107 mg/L		01/10/22 09:00	01/10/22 14:07	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		01/10/22 09:00	01/10/22 14:07	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		01/10/22 09:00	01/10/22 14:07	1

Lab Sample ID: LCS 860-36905/2-A

Matrix: Water

Analysis Batch: 36997

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 36905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Calcium	25.0	25.38		mg/L		102	85 - 115	
Magnesium	25.0	24.89		mg/L		100	85 - 115	
Potassium	10.0	10.15		mg/L		101	85 - 115	
Sodium	25.0	24.94		mg/L		100	85 - 115	
SiO2	21.4	21.48		mg/L		100	85 - 115	

Lab Sample ID: LCSD 860-36905/3-A

Matrix: Water

Analysis Batch: 36997

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 36905

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD
							Limits		
Calcium	25.0	25.45		mg/L		102	85 - 115	0	20
Magnesium	25.0	24.93		mg/L		100	85 - 115	0	20
Potassium	10.0	10.23		mg/L		102	85 - 115	1	20
Sodium	25.0	25.10		mg/L		100	85 - 115	1	20
SiO2	21.4	21.52		mg/L		101	85 - 115	0	20

Lab Sample ID: 880-9933-1 MS

Matrix: Water

Analysis Batch: 36997

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 36905

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Calcium	260	E	25.0	277.1	E 4	mg/L		67	70 - 130	
Magnesium	52.9		25.0	75.74		mg/L		92	70 - 130	
Potassium	4.11		10.0	14.49		mg/L		104	70 - 130	
Sodium	79.0		25.0	101.8		mg/L		91	70 - 130	
SiO2	63.5		21.4	83.86		mg/L		95	70 - 130	

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QC Sample Results

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

Job ID: 880-9933-1
SDG: Hobbs NM

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

Lab Sample ID: 880-9933-1 MSD

Matrix: Water

Analysis Batch: 36997

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 36905

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	260	E	25.0	277.4	E 4	mg/L		68	70 - 130	0	20
Magnesium	52.9		25.0	75.84		mg/L		92	70 - 130	0	20
Potassium	4.11		10.0	14.54		mg/L		104	70 - 130	0	20
Sodium	79.0		25.0	101.7		mg/L		91	70 - 130	0	20
SiO2	63.5		21.4	84.18		mg/L		97	70 - 130	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-37250/4

Matrix: Water

Analysis Batch: 37250

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Alkalinity	<4.00	U	4.00	4.00 mg/L			01/11/22 13:55	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/11/22 13:55	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/11/22 13:55	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			01/11/22 13:55	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			01/11/22 13:55	1

Lab Sample ID: LCS 860-37250/5

Matrix: Water

Analysis Batch: 37250

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				Limits
Alkalinity	250	273.5		mg/L		109	85 - 115

Lab Sample ID: LCSD 860-37250/6

Matrix: Water

Analysis Batch: 37250

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Added	Result	Qualifier				Limits		
Alkalinity	250	277.9		mg/L		111	85 - 115	2	20

Lab Sample ID: 880-9933-1 DU

Matrix: Water

Analysis Batch: 37250

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Alkalinity	711		724.4		mg/L		2	20
Bicarbonate Alkalinity as CaCO3	711		724.4		mg/L		2	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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QC Sample Results

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

Job ID: 880-9933-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-36908/1					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 36908									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			01/10/22 08:51	1	

Lab Sample ID: LCS 860-36908/2					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 36908									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids	1000	1101		mg/L		110	80 - 120		

Lab Sample ID: LCSD 860-36908/3					Client Sample ID: Lab Control Sample Dup				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 36908									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1057		mg/L		106	80 - 120	4	10

QC Association Summary

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

Job ID: 880-9933-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 36922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9933-1	Levey Well	Total/NA	Water	8260C	
MB 860-36922/9	Method Blank	Total/NA	Water	8260C	
LCS 860-36922/28	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-36922/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-9933-1 MS	Levey Well	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 36780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9933-1	Levey Well	Total/NA	Water	300.0	
MB 860-36780/140	Method Blank	Total/NA	Water	300.0	
MB 860-36780/152	Method Blank	Total/NA	Water	300.0	
LCS 860-36780/141	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-36780/153	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-36780/142	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-36780/154	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 36781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9933-1	Levey Well	Total/NA	Water	300.0	
MB 860-36781/140	Method Blank	Total/NA	Water	300.0	
MB 860-36781/152	Method Blank	Total/NA	Water	300.0	
LCS 860-36781/141	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-36781/153	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-36781/142	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-36781/154	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 36905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9933-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-36905/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-36905/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-36905/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
880-9933-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-9933-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 36997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9933-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	36905
880-9933-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	36905
MB 860-36905/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	36905
LCS 860-36905/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	36905
LCSD 860-36905/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	36905
880-9933-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	36905
880-9933-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	36905

Eurofins Midland

QC Association Summary

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

Job ID: 880-9933-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 36849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9933-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 36908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9933-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-36908/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-36908/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-36908/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 37250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9933-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-37250/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-37250/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-37250/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-9933-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 37260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9933-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-9933-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-9933-1
Date Collected: 01/06/22 08:32 Matrix: Water
Date Received: 01/06/22 16:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	36922	01/10/22 13:41	EM	XEN STF
Total/NA	Analysis	300.0		1	36780	01/07/22 22:07	ANP	XEN STF
Total/NA	Analysis	300.0		1	36781	01/07/22 22:07	ANP	XEN STF
Total Recoverable	Prep	200.7			36905	01/10/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	36997	01/10/22 14:17	AV	XEN STF
Total Recoverable	Prep	200.7			36905	01/10/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	36997	01/10/22 14:35	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	37260	01/12/22 10:30	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	37250	01/11/22 14:26	YGG	XEN STF
Total/NA	Analysis	SM 2540C		1	36908	01/10/22 08:51	ADL	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	36849	01/07/22 15:50	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 Hobb NM - 03B1417001

Job ID: 880-9933-1
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
8260C		Water	Total BTEX
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 Hobb NM - 03B1417001

Job ID: 880-9933-1
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 Hobb NM - 03B1417001

Job ID: 880-9933-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-9933-1	Levey Well	Water	01/06/22 08:32	01/06/22 16:01

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Houston, TX (281) 240-4200 Dallas, TX (214) 902-0350 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) 355-0800 Atlanta, GA (770) 448-8800 Tampa, FL (813) 281-1111
Hobbs, NM (575) 382-7550

Chain of Custody



880-9933 Chain of Custody

WWW.ACHIVU.COM

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:	210-219-8858		Email:	bjennings@ensolum.com

Work Order Comments

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

State of Project: *New Mexico*

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

Deliverables EDD ☐ ADAPT ☐ Other ☐

[illegible][illegible]

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1-10-22 16:00			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-9933-1

SDG Number: Hobbs NM

Login Number: 9933

List Number: 1

Creator: Teel, Brianna

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: 880-9933-1

SDG Number: Hobbs NM

Login Number: 9933

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 01/07/22 02:24 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: 880-10164-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobb 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:
1/18/2022 6:43:19 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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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 Hobb NM - 03B1417001

Laboratory Job ID: 880-10164-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum

Job ID: 880-10164-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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.

Metals

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

General Chemistry

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

Glossary

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

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-10164-1
SDG: Hobbs NM

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-10164-1
SDG: Hobbs NM

Job ID: 880-10164-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-10164-1**

Receipt

The sample was received on 1/12/2022 5:03 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 4.2°C

GC/MS VOA

Method 8260C: Due to the high concentration of; Isopropylbenzene, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-37540 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-37540 recovered outside control limits for the following analytes; Dichloro difluoromethane 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 / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 860-37540 were outside control limits: (860-18884-E-4 MS) and (860-18884-C-4 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-37739 were outside control limits. Sample matrix interference is suspected .

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-37739 recovered outside control limits for the following analytes: Dichloro difluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

HPLC/IC

Method 300_ORGFMS: The following sample was received outside of holding time: Levey Well (880-10164-1).

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

Metals

Method 200.7: Due to the high concentration of calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-37680 and analytical batch 860-37777 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 Hobb NM - 03B1417001

Job ID: 880-10164-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-10164-1

Date Collected: 01/12/22 08:45

Matrix: Water

Date Received: 01/12/22 17:03

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00260		0.00100	0.000214	mg/L		01/14/22 17:53	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		01/14/22 17:53	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		01/14/22 17:53	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		01/14/22 17:53	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		01/14/22 17:53	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		01/14/22 17:53	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		01/14/22 17:53	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		01/14/22 17:53	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		01/14/22 17:53	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		01/14/22 17:53	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		01/14/22 17:53	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		01/14/22 17:53	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		01/14/22 17:53	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		01/14/22 17:53	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		01/14/22 17:53	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		01/14/22 17:53	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		01/14/22 17:53	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		01/14/22 17:53	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		01/14/22 17:53	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		01/14/22 17:53	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		01/14/22 17:53	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		01/14/22 17:53	1
Dichlorodifluoromethane	<0.000316	U **	0.00100	0.000316	mg/L		01/14/22 17:53	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		01/14/22 17:53	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		01/14/22 17:53	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		01/14/22 17:53	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		01/14/22 17:53	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		01/14/22 17:53	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		01/14/22 17:53	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		01/14/22 17:53	1
Ethylbenzene	0.0102		0.00100	0.000515	mg/L		01/14/22 17:53	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		01/14/22 17:53	1
Isopropylbenzene	0.00707		0.00100	0.000161	mg/L		01/17/22 14:12	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		01/14/22 17:53	1
m,p-Xylenes	0.0381		0.0100	0.000330	mg/L		01/14/22 17:53	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		01/14/22 17:53	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		01/14/22 17:53	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		01/14/22 17:53	1
N-Propylbenzene	0.00273		0.00100	0.000179	mg/L		01/14/22 17:53	1
o-Xylene	0.00573		0.00100	0.000192	mg/L		01/14/22 17:53	1
p-Cymene (p-Isopropyltoluene)	0.000621	J	0.00100	0.000233	mg/L		01/14/22 17:53	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L		01/14/22 17:53	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		01/14/22 17:53	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		01/14/22 17:53	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		01/14/22 17:53	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		01/14/22 17:53	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		01/14/22 17:53	1
Toluene	0.0190		0.00100	0.000500	mg/L		01/14/22 17:53	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		01/14/22 17:53	1

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Client Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-10164-1

Date Collected: 01/12/22 08:45

Matrix: Water

Date Received: 01/12/22 17:03

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			01/14/22 17:53	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 17:53	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 17:53	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/14/22 17:53	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/14/22 17:53	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/14/22 17:53	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/14/22 17:53	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/14/22 17:53	1
1,2,4-Trimethylbenzene	0.0197		0.00100	0.000252 mg/L			01/14/22 17:53	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/14/22 17:53	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/14/22 17:53	1
Xylenes, Total	0.0438		0.0100	0.000330 mg/L			01/14/22 17:53	1
Total BTEX	0.0757		0.0100	0.000214 mg/L			01/14/22 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		74 - 124		01/14/22 17:53	1
4-Bromofluorobenzene (Surr)	111		74 - 124		01/17/22 14:12	1
Dibromofluoromethane (Surr)	104		75 - 131		01/14/22 17:53	1
Dibromofluoromethane (Surr)	104		75 - 131		01/17/22 14:12	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		01/14/22 17:53	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		01/17/22 14:12	1
Toluene-d8 (Surr)	99		80 - 117		01/14/22 17:53	1
Toluene-d8 (Surr)	101		80 - 117		01/17/22 14:12	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.438	J	0.500	0.0711 mg/L			01/14/22 19:12	1
Nitrate as N	0.178	H	0.100	0.0391 mg/L			01/14/22 19:12	1
Chloride	223		0.500	0.200 mg/L			01/14/22 19:12	1
Nitrite as N	<0.0293	U H	0.100	0.0293 mg/L			01/14/22 19:12	1
Fluoride	0.561		0.500	0.100 mg/L			01/14/22 19:12	1
Sulfate	42.8		0.500	0.109 mg/L			01/14/22 19:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	254		10.0	1.47 mg/L		01/17/22 09:00	01/17/22 13:51	50
Magnesium	49.2		0.200	0.0500 mg/L		01/17/22 09:00	01/17/22 13:33	1
Potassium	3.60		0.500	0.107 mg/L		01/17/22 09:00	01/17/22 13:33	1
Sodium	71.9		0.500	0.0667 mg/L		01/17/22 09:00	01/17/22 13:33	1
SiO2	63.9		1.07	0.0781 mg/L		01/17/22 09:00	01/17/22 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-4.90			%			01/17/22 17:54	1
Alkalinity	633		4.00	4.00 mg/L			01/14/22 16:35	1
Bicarbonate Alkalinity as CaCO3	633		4.00	4.00 mg/L			01/14/22 16:35	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/14/22 16:35	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			01/14/22 16:35	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			01/14/22 16:35	1
Total Dissolved Solids	1090		10.0	10.0 mg/L			01/14/22 12:52	1

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Client Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 01/12/22 08:45
Date Received: 01/12/22 17:03

Lab Sample ID: 880-10164-1
Matrix: Water

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
pH	6.1	HF		SU			01/14/22 16:01	1	
Temperature	21.7	HF		Celsius			01/14/22 16:01	1	

Surrogate Summary

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

Job ID: 880-10164-1
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)
860-18884-C-4 MSD	Matrix Spike Duplicate	109	107	104	97
860-18884-E-4 MS	Matrix Spike	111	106	102	99
880-10164-1	Levey Well	108	104	103	99
880-10164-1	Levey Well	111	104	105	101
880-10164-1 MS	Levey Well	109	107	103	99
LCS 860-37540/3	Lab Control Sample	105	106	102	97
LCS 860-37739/3	Lab Control Sample	107	106	102	98
LCSD 860-37540/4	Lab Control Sample Dup	105	106	103	97
LCSD 860-37739/4	Lab Control Sample Dup	108	105	102	98
MB 860-37540/9	Method Blank	110	105	103	99
MB 860-37739/10	Method Blank	111	105	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 Hobb NM - 03B1417001

Job ID: 880-10164-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-37540/9

Matrix: Water

Analysis Batch: 37540

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			01/14/22 13:01	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/14/22 13:01	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/14/22 13:01	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/14/22 13:01	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/14/22 13:01	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/14/22 13:01	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/14/22 13:01	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/14/22 13:01	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/14/22 13:01	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/14/22 13:01	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/14/22 13:01	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/14/22 13:01	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/14/22 13:01	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/14/22 13:01	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/14/22 13:01	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/14/22 13:01	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/14/22 13:01	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/14/22 13:01	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/14/22 13:01	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/14/22 13:01	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/14/22 13:01	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/14/22 13:01	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/14/22 13:01	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/14/22 13:01	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/14/22 13:01	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/14/22 13:01	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/14/22 13:01	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/14/22 13:01	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/14/22 13:01	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/14/22 13:01	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/14/22 13:01	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 13:01	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/14/22 13:01	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/14/22 13:01	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/14/22 13:01	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/14/22 13:01	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/14/22 13:01	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/14/22 13:01	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/14/22 13:01	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/14/22 13:01	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/14/22 13:01	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/14/22 13:01	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/14/22 13:01	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/14/22 13:01	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/14/22 13:01	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/14/22 13:01	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/14/22 13:01	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			01/14/22 13:01	1

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QC Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-37540/9

Matrix: Water

Analysis Batch: 37540

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/14/22 13:01	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 13:01	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 13:01	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/14/22 13:01	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/14/22 13:01	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/14/22 13:01	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/14/22 13:01	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/14/22 13:01	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/14/22 13:01	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/14/22 13:01	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/14/22 13:01	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/14/22 13:01	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			01/14/22 13:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		74 - 124		01/14/22 13:01	1
Dibromofluoromethane (Surr)	105		75 - 131		01/14/22 13:01	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		01/14/22 13:01	1
Toluene-d8 (Surr)	99		80 - 117		01/14/22 13:01	1

Lab Sample ID: LCS 860-37540/3

Matrix: Water

Analysis Batch: 37540

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	0.04968		mg/L		99	66 - 142
Bromobenzene	0.0500	0.04455		mg/L		89	75 - 125
Bromochloromethane	0.0500	0.05084		mg/L		102	60 - 140
Bromodichloromethane	0.0500	0.05140		mg/L		103	75 - 125
Bromoform	0.0500	0.03875		mg/L		78	75 - 125
Bromomethane	0.0500	0.04673		mg/L		93	60 - 140
2-Butanone	0.250	0.2558		mg/L		102	60 - 140
Carbon tetrachloride	0.0500	0.05257		mg/L		105	62 - 125
Chlorobenzene	0.0500	0.04621		mg/L		92	60 - 133
Chloroethane	0.0500	0.04333		mg/L		87	60 - 140
Chloroform	0.0500	0.05359		mg/L		107	70 - 130
Chloromethane	0.0500	0.05387		mg/L		108	60 - 140
2-Chlorotoluene	0.0500	0.04574		mg/L		91	73 - 125
4-Chlorotoluene	0.0500	0.04628		mg/L		93	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05331		mg/L		107	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05186		mg/L		104	74 - 125
Dibromochloromethane	0.0500	0.04650		mg/L		93	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.03670		mg/L		73	59 - 125
1,2-Dibromoethane	0.0500	0.04590		mg/L		92	73 - 125
1,2-Dichlorobenzene	0.0500	0.04352		mg/L		87	75 - 125
1,3-Dichlorobenzene	0.0500	0.04494		mg/L		90	75 - 125
1,4-Dichlorobenzene	0.0500	0.04347		mg/L		87	75 - 125
Dichlorodifluoromethane	0.0500	0.06652	*+	mg/L		133	70 - 130

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QC Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-37540/3

Matrix: Water

Analysis Batch: 37540

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	0.05368		mg/L		107	72 - 125
1,2-Dichloroethane	0.0500	0.05085		mg/L		102	68 - 127
1,1-Dichloroethene	0.0500	0.05567		mg/L		111	59 - 172
1,2-Dichloropropane	0.0500	0.05000		mg/L		100	74 - 125
1,3-Dichloropropane	0.0500	0.04467		mg/L		89	75 - 125
2,2-Dichloropropane	0.0500	0.05645		mg/L		113	75 - 125
1,1-Dichloropropene	0.0500	0.05379		mg/L		108	75 - 125
Ethylbenzene	0.0500	0.04627		mg/L		93	75 - 125
Hexachlorobutadiene	0.0500	0.04258		mg/L		85	75 - 125
Isopropylbenzene	0.0500	0.04671		mg/L		93	75 - 125
Methylene Chloride	0.0500	0.05191		mg/L		104	75 - 125
m,p-Xylenes	0.0500	0.04714		mg/L		94	75 - 125
MTBE	0.0500	0.05044		mg/L		101	65 - 135
Naphthalene	0.0500	0.03968		mg/L		79	70 - 130
n-Butylbenzene	0.0500	0.04768		mg/L		95	75 - 125
N-Propylbenzene	0.0500	0.04641		mg/L		93	75 - 125
o-Xylene	0.0500	0.04744		mg/L		95	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04619		mg/L		92	75 - 125
sec-Butylbenzene	0.0500	0.04604		mg/L		92	75 - 125
Styrene	0.0500	0.04733		mg/L		95	75 - 125
tert-Butylbenzene	0.0500	0.04554		mg/L		91	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04723		mg/L		94	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04334		mg/L		87	74 - 125
Tetrachloroethene	0.0500	0.04504		mg/L		90	71 - 125
Toluene	0.0500	0.04562		mg/L		91	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05425		mg/L		109	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04864		mg/L		97	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.03880		mg/L		78	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04100		mg/L		82	75 - 135
1,1,1-Trichloroethane	0.0500	0.05422		mg/L		108	75 - 125
1,1,2-Trichloroethane	0.0500	0.04631		mg/L		93	75 - 127
Trichloroethene	0.0500	0.04925		mg/L		99	62 - 137
Trichlorofluoromethane	0.0500	0.04722		mg/L		94	60 - 140
1,2,3-Trichloropropane	0.0500	0.04395		mg/L		88	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04687		mg/L		94	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04585		mg/L		92	60 - 140
Vinyl chloride	0.0500	0.04744		mg/L		95	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		74 - 124
Dibromofluoromethane (Surr)	106		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-37540/4

Matrix: Water

Analysis Batch: 37540

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Benzene	0.0500	0.04653		mg/L		93	66 - 142	7	25
Bromobenzene	0.0500	0.04325		mg/L		86	75 - 125	3	25
Bromochloromethane	0.0500	0.04917		mg/L		98	60 - 140	3	25
Bromodichloromethane	0.0500	0.04846		mg/L		97	75 - 125	6	25
Bromoform	0.0500	0.04150		mg/L		83	75 - 125	7	25
Bromomethane	0.0500	0.04289		mg/L		86	60 - 140	9	25
2-Butanone	0.250	0.2939		mg/L		118	60 - 140	14	25
Carbon tetrachloride	0.0500	0.05010		mg/L		100	62 - 125	5	25
Chlorobenzene	0.0500	0.04492		mg/L		90	60 - 133	3	25
Chloroethane	0.0500	0.04063		mg/L		81	60 - 140	6	25
Chloroform	0.0500	0.05131		mg/L		103	70 - 130	4	25
Chloromethane	0.0500	0.05109		mg/L		102	60 - 140	5	25
2-Chlorotoluene	0.0500	0.04402		mg/L		88	73 - 125	4	25
4-Chlorotoluene	0.0500	0.04494		mg/L		90	74 - 125	3	25
cis-1,2-Dichloroethene	0.0500	0.05072		mg/L		101	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.04978		mg/L		100	74 - 125	4	25
Dibromochloromethane	0.0500	0.04781		mg/L		96	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04226		mg/L		85	59 - 125	14	25
1,2-Dibromoethane	0.0500	0.04675		mg/L		94	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04307		mg/L		86	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.04346		mg/L		87	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.04155		mg/L		83	75 - 125	5	25
Dichlorodifluoromethane	0.0500	0.06150		mg/L		123	70 - 130	8	25
1,1-Dichloroethane	0.0500	0.05096		mg/L		102	72 - 125	5	25
1,2-Dichloroethane	0.0500	0.04933		mg/L		99	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.05203		mg/L		104	59 - 172	7	25
1,2-Dichloropropane	0.0500	0.04668		mg/L		93	74 - 125	7	25
1,3-Dichloropropane	0.0500	0.04560		mg/L		91	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05307		mg/L		106	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.05079		mg/L		102	75 - 125	6	25
Ethylbenzene	0.0500	0.04485		mg/L		90	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.04404		mg/L		88	75 - 125	3	25
Isopropylbenzene	0.0500	0.04527		mg/L		91	75 - 125	3	25
Methylene Chloride	0.0500	0.05001		mg/L		100	75 - 125	4	25
m,p-Xylenes	0.0500	0.04544		mg/L		91	75 - 125	4	25
MTBE	0.0500	0.05129		mg/L		103	65 - 135	2	25
Naphthalene	0.0500	0.04538		mg/L		91	70 - 130	13	25
n-Butylbenzene	0.0500	0.04654		mg/L		93	75 - 125	2	25
N-Propylbenzene	0.0500	0.04453		mg/L		89	75 - 125	4	25
o-Xylene	0.0500	0.04581		mg/L		92	75 - 125	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04445		mg/L		89	75 - 125	4	25
sec-Butylbenzene	0.0500	0.04442		mg/L		89	75 - 125	4	25
Styrene	0.0500	0.04601		mg/L		92	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04385		mg/L		88	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.04582		mg/L		92	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.04604		mg/L		92	74 - 125	6	25
Tetrachloroethene	0.0500	0.04279		mg/L		86	71 - 125	5	25
Toluene	0.0500	0.04401		mg/L		88	59 - 139	4	25

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QC Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-37540/4

Matrix: Water

Analysis Batch: 37540

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	0.05109		mg/L		102	75 - 125	6	25
trans-1,3-Dichloropropene	0.0500	0.04915		mg/L		98	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.04106		mg/L		82	75 - 137	6	25
1,2,4-Trichlorobenzene	0.0500	0.04196		mg/L		84	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05093		mg/L		102	75 - 125	6	25
1,1,2-Trichloroethane	0.0500	0.04716		mg/L		94	75 - 127	2	25
Trichloroethene	0.0500	0.04608		mg/L		92	62 - 137	7	25
Trichlorofluoromethane	0.0500	0.04447		mg/L		89	60 - 140	6	25
1,2,3-Trichloropropane	0.0500	0.04781		mg/L		96	75 - 125	8	25
1,2,4-Trimethylbenzene	0.0500	0.04498		mg/L		90	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.04363		mg/L		87	60 - 140	5	25
Vinyl chloride	0.0500	0.04424		mg/L		88	60 - 140	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	105		74 - 124
Dibromofluoromethane (Surr)	106		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Lab Sample ID: MB 860-37739/10

Matrix: Water

Analysis Batch: 37739

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		01/17/22 13:53	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		01/17/22 13:53	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		01/17/22 13:53	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		01/17/22 13:53	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		01/17/22 13:53	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		01/17/22 13:53	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		01/17/22 13:53	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		01/17/22 13:53	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		01/17/22 13:53	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		01/17/22 13:53	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		01/17/22 13:53	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		01/17/22 13:53	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		01/17/22 13:53	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		01/17/22 13:53	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		01/17/22 13:53	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		01/17/22 13:53	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		01/17/22 13:53	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		01/17/22 13:53	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		01/17/22 13:53	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		01/17/22 13:53	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		01/17/22 13:53	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		01/17/22 13:53	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		01/17/22 13:53	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		01/17/22 13:53	1

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QC Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-37739/10

Matrix: Water

Analysis Batch: 37739

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/17/22 13:53	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/17/22 13:53	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/17/22 13:53	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/17/22 13:53	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/17/22 13:53	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/17/22 13:53	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/17/22 13:53	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			01/17/22 13:53	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/17/22 13:53	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/17/22 13:53	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/17/22 13:53	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/17/22 13:53	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/17/22 13:53	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/17/22 13:53	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/17/22 13:53	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/17/22 13:53	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/17/22 13:53	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/17/22 13:53	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/17/22 13:53	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/17/22 13:53	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/17/22 13:53	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/17/22 13:53	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/17/22 13:53	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			01/17/22 13:53	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/17/22 13:53	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/17/22 13:53	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/17/22 13:53	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/17/22 13:53	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/17/22 13:53	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/17/22 13:53	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/17/22 13:53	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/17/22 13:53	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/17/22 13:53	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/17/22 13:53	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/17/22 13:53	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/17/22 13:53	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			01/17/22 13:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		74 - 124		01/17/22 13:53	1
Dibromofluoromethane (Surr)	105		75 - 131		01/17/22 13:53	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		01/17/22 13:53	1
Toluene-d8 (Surr)	101		80 - 117		01/17/22 13:53	1

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QC Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-37739/3

Matrix: Water

Analysis Batch: 37739

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	0.05101		mg/L		102	66 - 142
Bromobenzene	0.0500	0.04819		mg/L		96	75 - 125
Bromochloromethane	0.0500	0.05208		mg/L		104	60 - 140
Bromodichloromethane	0.0500	0.05200		mg/L		104	75 - 125
Bromoform	0.0500	0.04286		mg/L		86	75 - 125
Bromomethane	0.0500	0.04485		mg/L		90	60 - 140
2-Butanone	0.250	0.2759		mg/L		110	60 - 140
Carbon tetrachloride	0.0500	0.05516		mg/L		110	62 - 125
Chlorobenzene	0.0500	0.04779		mg/L		96	60 - 133
Chloroethane	0.0500	0.04399		mg/L		88	60 - 140
Chloroform	0.0500	0.05365		mg/L		107	70 - 130
Chloromethane	0.0500	0.05938		mg/L		119	60 - 140
2-Chlorotoluene	0.0500	0.04934		mg/L		99	73 - 125
4-Chlorotoluene	0.0500	0.04979		mg/L		100	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05434		mg/L		109	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05310		mg/L		106	74 - 125
Dibromochloromethane	0.0500	0.04925		mg/L		99	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04263		mg/L		85	59 - 125
1,2-Dibromoethane	0.0500	0.04813		mg/L		96	73 - 125
1,2-Dichlorobenzene	0.0500	0.04695		mg/L		94	75 - 125
1,3-Dichlorobenzene	0.0500	0.04811		mg/L		96	75 - 125
1,4-Dichlorobenzene	0.0500	0.04618		mg/L		92	75 - 125
Dichlorodifluoromethane	0.0500	0.06903	*+	mg/L		138	70 - 130
1,1-Dichloroethane	0.0500	0.05344		mg/L		107	72 - 125
1,2-Dichloroethane	0.0500	0.05175		mg/L		103	68 - 127
1,1-Dichloroethene	0.0500	0.05855		mg/L		117	59 - 172
1,2-Dichloropropane	0.0500	0.05036		mg/L		101	74 - 125
1,3-Dichloropropane	0.0500	0.04693		mg/L		94	75 - 125
2,2-Dichloropropane	0.0500	0.05737		mg/L		115	75 - 125
1,1-Dichloropropene	0.0500	0.05511		mg/L		110	75 - 125
Ethylbenzene	0.0500	0.04838		mg/L		97	75 - 125
Hexachlorobutadiene	0.0500	0.04638		mg/L		93	75 - 125
Isopropylbenzene	0.0500	0.04873		mg/L		97	75 - 125
Methylene Chloride	0.0500	0.05212		mg/L		104	75 - 125
m,p-Xylenes	0.0500	0.04933		mg/L		99	75 - 125
MTBE	0.0500	0.05165		mg/L		103	65 - 135
Naphthalene	0.0500	0.04535		mg/L		91	70 - 130
n-Butylbenzene	0.0500	0.05150		mg/L		103	75 - 125
N-Propylbenzene	0.0500	0.04984		mg/L		100	75 - 125
o-Xylene	0.0500	0.04921		mg/L		98	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04971		mg/L		99	75 - 125
sec-Butylbenzene	0.0500	0.04970		mg/L		99	75 - 125
Styrene	0.0500	0.04897		mg/L		98	75 - 125
tert-Butylbenzene	0.0500	0.04887		mg/L		98	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04893		mg/L		98	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04735		mg/L		95	74 - 125
Tetrachloroethene	0.0500	0.04798		mg/L		96	71 - 125
Toluene	0.0500	0.04791		mg/L		96	59 - 139

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QC Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-37739/3

Matrix: Water

Analysis Batch: 37739

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	0.0500	0.05629		mg/L		113	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05257		mg/L		105	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04339		mg/L		87	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04512		mg/L		90	75 - 135
1,1,1-Trichloroethane	0.0500	0.05435		mg/L		109	75 - 125
1,1,2-Trichloroethane	0.0500	0.04812		mg/L		96	75 - 127
Trichloroethene	0.0500	0.05042		mg/L		101	62 - 137
Trichlorofluoromethane	0.0500	0.04848		mg/L		97	60 - 140
1,2,3-Trichloropropane	0.0500	0.04991		mg/L		100	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04988		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04932		mg/L		99	60 - 140
Vinyl chloride	0.0500	0.04912		mg/L		98	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		74 - 124
Dibromofluoromethane (Surr)	106		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	98		80 - 117

Lab Sample ID: LCSD 860-37739/4

Matrix: Water

Analysis Batch: 37739

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	0.04763		mg/L		95	66 - 142	7	25
Bromobenzene	0.0500	0.04476		mg/L		90	75 - 125	7	25
Bromochloromethane	0.0500	0.04886		mg/L		98	60 - 140	6	25
Bromodichloromethane	0.0500	0.04901		mg/L		98	75 - 125	6	25
Bromoform	0.0500	0.03989		mg/L		80	75 - 125	7	25
Bromomethane	0.0500	0.04312		mg/L		86	60 - 140	4	25
2-Butanone	0.250	0.2523		mg/L		101	60 - 140	9	25
Carbon tetrachloride	0.0500	0.05140		mg/L		103	62 - 125	7	25
Chlorobenzene	0.0500	0.04515		mg/L		90	60 - 133	6	25
Chloroethane	0.0500	0.04101		mg/L		82	60 - 140	7	25
Chloroform	0.0500	0.05090		mg/L		102	70 - 130	5	25
Chloromethane	0.0500	0.05741		mg/L		115	60 - 140	3	25
2-Chlorotoluene	0.0500	0.04596		mg/L		92	73 - 125	7	25
4-Chlorotoluene	0.0500	0.04665		mg/L		93	74 - 125	6	25
cis-1,2-Dichloroethene	0.0500	0.05093		mg/L		102	75 - 125	6	25
cis-1,3-Dichloropropene	0.0500	0.05031		mg/L		101	74 - 125	5	25
Dibromochloromethane	0.0500	0.04643		mg/L		93	73 - 125	6	25
1,2-Dibromo-3-Chloropropane	0.0500	0.03885		mg/L		78	59 - 125	9	25
1,2-Dibromoethane	0.0500	0.04570		mg/L		91	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04407		mg/L		88	75 - 125	6	25
1,3-Dichlorobenzene	0.0500	0.04494		mg/L		90	75 - 125	7	25
1,4-Dichlorobenzene	0.0500	0.04340		mg/L		87	75 - 125	6	25
Dichlorodifluoromethane	0.0500	0.06282		mg/L		126	70 - 130	9	25
1,1-Dichloroethane	0.0500	0.05041		mg/L		101	72 - 125	6	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-37739/4

Matrix: Water

Analysis Batch: 37739

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
1,2-Dichloroethane	0.0500	0.04920		mg/L		98	68 - 127	5	25
1,1-Dichloroethene	0.0500	0.05364		mg/L		107	59 - 172	9	25
1,2-Dichloropropane	0.0500	0.04778		mg/L		96	74 - 125	5	25
1,3-Dichloropropane	0.0500	0.04443		mg/L		89	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.05332		mg/L		107	75 - 125	7	25
1,1-Dichloropropene	0.0500	0.05160		mg/L		103	75 - 125	7	25
Ethylbenzene	0.0500	0.04543		mg/L		91	75 - 125	6	25
Hexachlorobutadiene	0.0500	0.04276		mg/L		86	75 - 125	8	25
Isopropylbenzene	0.0500	0.04578		mg/L		92	75 - 125	6	25
Methylene Chloride	0.0500	0.04871		mg/L		97	75 - 125	7	25
m,p-Xylenes	0.0500	0.04616		mg/L		92	75 - 125	7	25
MTBE	0.0500	0.04870		mg/L		97	65 - 135	6	25
Naphthalene	0.0500	0.04178		mg/L		84	70 - 130	8	25
n-Butylbenzene	0.0500	0.04787		mg/L		96	75 - 125	7	25
N-Propylbenzene	0.0500	0.04630		mg/L		93	75 - 125	7	25
o-Xylene	0.0500	0.04628		mg/L		93	75 - 125	6	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04659		mg/L		93	75 - 125	6	25
sec-Butylbenzene	0.0500	0.04642		mg/L		93	75 - 125	7	25
Styrene	0.0500	0.04644		mg/L		93	75 - 125	5	25
tert-Butylbenzene	0.0500	0.04585		mg/L		92	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.04608		mg/L		92	72 - 125	6	25
1,1,2,2-Tetrachloroethane	0.0500	0.04431		mg/L		89	74 - 125	7	25
Tetrachloroethene	0.0500	0.04479		mg/L		90	71 - 125	7	25
Toluene	0.0500	0.04477		mg/L		90	59 - 139	7	25
trans-1,2-Dichloroethene	0.0500	0.05235		mg/L		105	75 - 125	7	25
trans-1,3-Dichloropropene	0.0500	0.04956		mg/L		99	66 - 125	6	25
1,2,3-Trichlorobenzene	0.0500	0.04029		mg/L		81	75 - 137	7	25
1,2,4-Trichlorobenzene	0.0500	0.04197		mg/L		84	75 - 135	7	25
1,1,1-Trichloroethane	0.0500	0.05131		mg/L		103	75 - 125	6	25
1,1,2-Trichloroethane	0.0500	0.04556		mg/L		91	75 - 127	5	25
Trichloroethene	0.0500	0.04714		mg/L		94	62 - 137	7	25
Trichlorofluoromethane	0.0500	0.04378		mg/L		88	60 - 140	10	25
1,2,3-Trichloropropane	0.0500	0.04641		mg/L		93	75 - 125	7	25
1,2,4-Trimethylbenzene	0.0500	0.04651		mg/L		93	75 - 125	7	25
1,3,5-Trimethylbenzene	0.0500	0.04585		mg/L		92	60 - 140	7	25
Vinyl chloride	0.0500	0.04566		mg/L		91	60 - 140	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	98		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-10164-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

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

Lab Sample ID: 880-10164-1 MS

Matrix: Water

Analysis Batch: 37739

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00391	B	0.0500	0.05123		mg/L		95	66 - 142
Bromobenzene	<0.000300	U	0.0500	0.04691		mg/L		94	75 - 125
Bromochloromethane	<0.000209	U	0.0500	0.04868		mg/L		97	60 - 140
Bromodichloromethane	<0.000231	U	0.0500	0.05048		mg/L		101	75 - 125
Bromoform	<0.000630	U	0.0500	0.04080		mg/L		82	75 - 125
Bromomethane	<0.00105	U	0.0500	0.03978		mg/L		80	60 - 140
2-Butanone	<0.00270	U	0.250	0.2635		mg/L		105	60 - 140
Carbon tetrachloride	<0.000423	U	0.0500	0.05398		mg/L		108	62 - 125
Chlorobenzene	<0.000159	U	0.0500	0.04677		mg/L		94	60 - 133
Chloroethane	<0.000433	U	0.0500	0.03781		mg/L		76	60 - 140
Chloroform	<0.000259	U	0.0500	0.05261		mg/L		105	70 - 130
Chloromethane	<0.000318	U	0.0500	0.05684		mg/L		114	60 - 140
2-Chlorotoluene	<0.000214	U	0.0500	0.04941		mg/L		99	73 - 125
4-Chlorotoluene	<0.000183	U	0.0500	0.04945		mg/L		99	74 - 125
cis-1,2-Dichloroethene	0.000202	J	0.0500	0.05350		mg/L		107	75 - 125
cis-1,3-Dichloropropene	<0.000690	U	0.0500	0.05119		mg/L		102	74 - 125
Dibromochloromethane	<0.000739	U	0.0500	0.04809		mg/L		96	73 - 125
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.0500	0.03864		mg/L		77	59 - 125
1,2-Dibromoethane	<0.000337	U	0.0500	0.04692		mg/L		94	73 - 125
1,2-Dichlorobenzene	<0.000236	U	0.0500	0.04537		mg/L		91	75 - 125
1,3-Dichlorobenzene	<0.000197	U	0.0500	0.04694		mg/L		94	75 - 125
1,4-Dichlorobenzene	<0.000199	U	0.0500	0.04502		mg/L		90	75 - 125
Dichlorodifluoromethane	<0.000316	U ** F1	0.0500	0.06528	F1	mg/L		131	70 - 130
1,1-Dichloroethane	<0.000244	U	0.0500	0.05327		mg/L		107	72 - 125
1,2-Dichloroethane	<0.000285	U	0.0500	0.04984		mg/L		100	68 - 127
1,1-Dichloroethene	<0.000216	U	0.0500	0.05604		mg/L		112	59 - 172
1,2-Dichloropropane	<0.000396	U	0.0500	0.04919		mg/L		98	74 - 125
1,3-Dichloropropane	<0.000439	U	0.0500	0.04532		mg/L		91	75 - 125
2,2-Dichloropropane	<0.000360	U	0.0500	0.05605		mg/L		112	75 - 125
1,1-Dichloropropene	<0.000481	U	0.0500	0.05537		mg/L		111	75 - 125
Ethylbenzene	0.0142		0.0500	0.05530		mg/L		82	75 - 125
Hexachlorobutadiene	<0.00200	U	0.0500	0.04554		mg/L		91	75 - 125
Isopropylbenzene	0.00707		0.0500	0.05162		mg/L		89	75 - 125
Methylene Chloride	<0.00191	U	0.0500	0.05020		mg/L		100	75 - 125
m,p-Xylenes	0.0532	F1	0.0500	0.07715	F1	mg/L		48	75 - 125
MTBE	<0.000571	U	0.0500	0.04926		mg/L		99	65 - 135
Naphthalene	<0.00200	U	0.0500	0.04190		mg/L		84	70 - 130
n-Butylbenzene	0.000884	J	0.0500	0.05102		mg/L		100	75 - 125
N-Propylbenzene	0.00380		0.0500	0.05115		mg/L		95	75 - 125
o-Xylene	0.00839		0.0500	0.05238		mg/L		88	75 - 125
p-Cymene (p-Isopropyltoluene)	0.000897	J	0.0500	0.04934		mg/L		97	75 - 125
sec-Butylbenzene	0.00146		0.0500	0.04967		mg/L		96	75 - 125
Styrene	<0.000623	U	0.0500	0.04780		mg/L		96	75 - 125
tert-Butylbenzene	<0.000195	U	0.0500	0.04857		mg/L		97	75 - 125
1,1,1,2-Tetrachloroethane	<0.000327	U	0.0500	0.04797		mg/L		96	72 - 125
1,1,2,2-Tetrachloroethane	<0.000284	U	0.0500	0.04563		mg/L		91	74 - 125
Tetrachloroethene	<0.000500	U	0.0500	0.04833		mg/L		97	71 - 125
Toluene	0.0272		0.0500	0.06130		mg/L		68	59 - 139

Eurofins Midland

QC Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

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

Lab Sample ID: 880-10164-1 MS

Matrix: Water

Analysis Batch: 37739

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	<0.000256	U	0.0500	0.05559		mg/L		111	75 - 125
trans-1,3-Dichloropropene	<0.000752	U	0.0500	0.05099		mg/L		102	66 - 125
1,2,3-Trichlorobenzene	<0.00200	U	0.0500	0.04058		mg/L		81	75 - 137
1,2,4-Trichlorobenzene	<0.00200	U	0.0500	0.04292		mg/L		86	75 - 135
1,1,1-Trichloroethane	<0.000504	U	0.0500	0.05441		mg/L		109	75 - 125
1,1,2-Trichloroethane	<0.000228	U	0.0500	0.04716		mg/L		94	75 - 127
Trichloroethene	<0.000424	U	0.0500	0.04978		mg/L		100	62 - 137
Trichlorofluoromethane	<0.000245	U	0.0500	0.04564		mg/L		91	60 - 140
1,2,3-Trichloropropane	<0.000283	U	0.0500	0.04715		mg/L		94	75 - 125
1,2,4-Trimethylbenzene	0.0230		0.0500	0.06621		mg/L		86	75 - 125
1,3,5-Trimethylbenzene	0.00816		0.0500	0.05764		mg/L		99	70 - 125
Vinyl chloride	<0.000234	U	0.0500	0.04619		mg/L		92	60 - 140
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	109		74 - 124						
Dibromofluoromethane (Surr)	107		75 - 131						
1,2-Dichloroethane-d4 (Surr)	103		63 - 144						
Toluene-d8 (Surr)	99		80 - 117						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-37631/3

Matrix: Water

Analysis Batch: 37631

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			01/14/22 16:06	1
Chloride	<0.200	U	0.500	0.200 mg/L			01/14/22 16:06	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/14/22 16:06	1
Sulfate	<0.109	U	0.500	0.109 mg/L			01/14/22 16:06	1

Lab Sample ID: LCS 860-37631/4

Matrix: Water

Analysis Batch: 37631

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	9.906		mg/L		99	90 - 110
Chloride	10.0	9.932		mg/L		99	90 - 110
Fluoride	10.0	10.16		mg/L		102	90 - 110
Sulfate	10.0	9.902		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-37631/5

Matrix: Water

Analysis Batch: 37631

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	9.937		mg/L		99	90 - 110	0	20
Chloride	10.0	10.42		mg/L		104	90 - 110	5	20
Fluoride	10.0	10.17		mg/L		102	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-37631/5

Matrix: Water

Analysis Batch: 37631

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.00		mg/L		100	90 - 110	1	20

Lab Sample ID: MB 860-37632/3

Matrix: Water

Analysis Batch: 37632

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			01/14/22 16:06	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/14/22 16:06	1

Lab Sample ID: LCS 860-37632/4

Matrix: Water

Analysis Batch: 37632

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	9.893		mg/L		99	80 - 120
Nitrite as N	5.00	4.544		mg/L		91	80 - 120

Lab Sample ID: LCSD 860-37632/5

Matrix: Water

Analysis Batch: 37632

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	9.898		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	4.562		mg/L		91	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-37680/1-A

Matrix: Water

Analysis Batch: 37777

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 37680

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		01/17/22 09:00	01/17/22 13:23	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		01/17/22 09:00	01/17/22 13:23	1
Potassium	<0.107	U	0.500	0.107 mg/L		01/17/22 09:00	01/17/22 13:23	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		01/17/22 09:00	01/17/22 13:23	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		01/17/22 09:00	01/17/22 13:23	1

Lab Sample ID: LCS 860-37680/2-A

Matrix: Water

Analysis Batch: 37777

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 37680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25.0	25.13		mg/L		101	85 - 115
Magnesium	25.0	24.88		mg/L		100	85 - 115
Potassium	10.0	9.833		mg/L		98	85 - 115
Sodium	25.0	24.09		mg/L		96	85 - 115
SiO2	21.4	21.46		mg/L		100	85 - 115

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QC Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-37680/3-A

Matrix: Water

Analysis Batch: 37777

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 37680

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Calcium	25.0	24.23		mg/L		97	85 - 115	4	20
Magnesium	25.0	23.98		mg/L		96	85 - 115	4	20
Potassium	10.0	9.512		mg/L		95	85 - 115	3	20
Sodium	25.0	23.21		mg/L		93	85 - 115	4	20
SiO2	21.4	21.28		mg/L		99	85 - 115	1	20

Lab Sample ID: 880-10164-1 MS

Matrix: Water

Analysis Batch: 37777

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 37680

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	235	E	25.0	249.2	E 4	mg/L		56	70 - 130		
Magnesium	49.2		25.0	71.16		mg/L		88	70 - 130		
Potassium	3.60		10.0	13.39		mg/L		98	70 - 130		
Sodium	71.9		25.0	92.76		mg/L		83	70 - 130		
SiO2	63.9		21.4	83.01		mg/L		89	70 - 130		

Lab Sample ID: 880-10164-1 MSD

Matrix: Water

Analysis Batch: 37777

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 37680

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Calcium	235	E	25.0	260.6	E 4	mg/L		102	70 - 130	4	20
Magnesium	49.2		25.0	74.36		mg/L		101	70 - 130	4	20
Potassium	3.60		10.0	14.04		mg/L		104	70 - 130	5	20
Sodium	71.9		25.0	96.98		mg/L		100	70 - 130	4	20
SiO2	63.9		21.4	86.28		mg/L		105	70 - 130	4	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-37662/11

Matrix: Water

Analysis Batch: 37662

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			01/14/22 13:50	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/14/22 13:50	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/14/22 13:50	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			01/14/22 13:50	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			01/14/22 13:50	1

Lab Sample ID: LCS 860-37662/12

Matrix: Water

Analysis Batch: 37662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							Limits	
Alkalinity	250	234.2		mg/L		94	85 - 115	

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QC Sample Results

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

Job ID: 880-10164-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-37662/13

Matrix: Water

Analysis Batch: 37662

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	235.5		mg/L		94	85 - 115	1	20

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

Lab Sample ID: MB 860-37607/1

Matrix: Water

Analysis Batch: 37607

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			01/14/22 12:52	1

Lab Sample ID: LCS 860-37607/2

Matrix: Water

Analysis Batch: 37607

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD
Total Dissolved Solids	1000	938.0		mg/L		94	80 - 120	

Lab Sample ID: LCSD 860-37607/3

Matrix: Water

Analysis Batch: 37607

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1003		mg/L		100	80 - 120	7	10

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-10164-1 DU

Matrix: Water

Analysis Batch: 37634

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.1	HF	6.2		SU		0.8	20
Temperature	21.7	HF	21.5		Celsius		0.9	20

QC Association Summary

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

Job ID: 880-10164-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 37540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10164-1	Levey Well	Total/NA	Water	8260C	
MB 860-37540/9	Method Blank	Total/NA	Water	8260C	
LCS 860-37540/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-37540/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 37739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10164-1	Levey Well	Total/NA	Water	8260C	
MB 860-37739/10	Method Blank	Total/NA	Water	8260C	
LCS 860-37739/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-37739/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-10164-1 MS	Levey Well	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 37631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10164-1	Levey Well	Total/NA	Water	300.0	
MB 860-37631/3	Method Blank	Total/NA	Water	300.0	
LCS 860-37631/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-37631/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 37632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10164-1	Levey Well	Total/NA	Water	300.0	
MB 860-37632/3	Method Blank	Total/NA	Water	300.0	
LCS 860-37632/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-37632/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 37680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10164-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-37680/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-37680/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-37680/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
880-10164-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-10164-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 37777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10164-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	37680
880-10164-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	37680
MB 860-37680/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	37680
LCS 860-37680/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	37680
LCSD 860-37680/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	37680
880-10164-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	37680
880-10164-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	37680

Eurofins Midland

QC Association Summary

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

Job ID: 880-10164-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 37607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10164-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-37607/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-37607/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-37607/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 37634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10164-1	Levey Well	Total/NA	Water	SM 4500 H+ B	
880-10164-1 DU	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 37662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10164-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-37662/11	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-37662/12	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-37662/13	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 37824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10164-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-10164-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-10164-1

Date Collected: 01/12/22 08:45

Matrix: Water

Date Received: 01/12/22 17:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	37540	01/14/22 17:53	EM	XEN STF
Total/NA	Analysis	8260C		1	37739	01/17/22 14:12	EM	XEN STF
Total/NA	Analysis	300.0		1	37631	01/14/22 19:12	WP	XEN STF
Total/NA	Analysis	300.0		1	37632	01/14/22 19:12	WP	XEN STF
Total Recoverable	Prep	200.7			37680	01/17/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	37777	01/17/22 13:33	AV	XEN STF
Total Recoverable	Prep	200.7			37680	01/17/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	37777	01/17/22 13:51	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	37824	01/17/22 17:54	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	37662	01/14/22 16:35	YGG	XEN STF
Total/NA	Analysis	SM 2540C		1	37607	01/14/22 12:52	DTN	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	37634	01/14/22 16:01	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 Hobb NM - 03B1417001

Job ID: 880-10164-1
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
8260C		Water	Total BTEX
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

Job ID: 880-10164-1

Project/Site: Levey Well Hobb NM - 03B1417001

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

Eurofins Midland

Sample Summary

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

Job ID: 880-10164-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10164-1	Levey Well	Water	01/12/22 08:45	01/12/22 17:03

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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)565-3443 Lubbock, TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa, FL (813) 233-3927
Hobbs NM (575-392-7550)

40



880-10164 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	210-219-8858	Email:	bjennings@ensolum.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project: <i>New Mexico</i>	
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:	Aaron Marquez	Due Date

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):		44/4.2			Thermometer ID		
Received Intact:		Yes No			1428		
Cooler Custody Seals:		Yes No			Correction Factor:		.10
Sample Custody Seals:		Yes No			Total Containers:		

[illegible][illegible]

CUSTODY SEAL

Date: 1-12-22

Signature: 



ENVIRONMENTAL SAMPLING SUPPLY

www.essvial.com 800-233-8425

Total 200.1 / 6070 200.8 / 6020.

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

OLVN 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 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
		12-22-16 4:42			

Chain of Custody Record

 eurofins

Survivorship Test no. 1

Client Information (Sub Contract Lab)		Carrier Tracking No(s):	COG No:
Client Contact	Shipping/Receiving	State of Origin	Page 1 of 1
Company	Address	Job #	Preservation Codes:
Eurofins Environment Testing South Centre	4145 Greenbriar Dr City: Stafford State: TX Zip: 77477 Phone: 281-240-4200(Tel) Email: 88000024 Project Name: Levey Well Hobb NM 03B1417001 Site: 880-10164-1	880-10164-1	A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other
Due Date Requested:		Analysis Requested	
1/16/2022	TAT Requested (days):	Total Number of Containers	
PO #:	WO #:	Field Filtered Sample (Yes or No)	
Project #:	SSOW#:	Perform MS/MSD (Yes or No)	
Sample Date		Sample Time	
Sample Type (C=comp, G=grab)		Matrix (If water, specify, otherwise, DOWNSIDE)	
Sample Preservation Code		Sample Date	
Sample Time		Sample Type	
Sample Date		Sample Time	
Sample Type		Matrix	
Sample Preservation Code		Sample Date	
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Sample Time		Sample Type	
Sample Date		Sample Time	
Sample Type		Matrix	
Sample Preservation Code			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-10164-1

SDG Number: Hobbs NM

Login Number: 10164

List Number: 1

Creator: Teel, Brianna

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: 880-10164-1

SDG Number: Hobbs NM

Login Number: 10164

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 01/14/22 01:09 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: 880-10405-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobb 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:
1/24/2022 3:43:04 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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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 Hobb NM - 03B1417001

Laboratory Job ID: 880-10405-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum

Job ID: 880-10405-1

Project/Site: Levey Well Hobb NM - 03B1417001

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

General Chemistry

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

Glossary

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

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-10405-1
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 Hobb NM - 03B1417001

Job ID: 880-10405-1
SDG: Hobbs NM

Job ID: 880-10405-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-10405-1

Receipt

The sample was received on 1/19/2022 4:16 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-38259 recovered outside control limits for the following analytes: 2,2-Dichloropropane. 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 duplicate (MSD) recoveries for the following sample associated with analytical batch 860-38259 were outside control limits: (860-19302-F-1 MSD). Note: Sample is ND.

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 860-38272 were outside control limits. Sample matrix interference and/or non-homogeneity are 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 magnesium , the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-38379 and analytical batch 860-38485 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 Hobb NM - 03B1417001

Job ID: 880-10405-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-10405-1

Date Collected: 01/19/22 08:40

Matrix: Water

Date Received: 01/19/22 16:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00684		0.00100	0.000214	mg/L		01/20/22 17:39	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		01/20/22 17:39	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		01/20/22 17:39	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		01/20/22 17:39	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		01/20/22 17:39	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		01/20/22 17:39	1
2-Butanone	0.00679	J	0.0500	0.00270	mg/L		01/20/22 17:39	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		01/20/22 17:39	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		01/20/22 17:39	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		01/20/22 17:39	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		01/20/22 17:39	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		01/20/22 17:39	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		01/20/22 17:39	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		01/20/22 17:39	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		01/20/22 17:39	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		01/20/22 17:39	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		01/20/22 17:39	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		01/20/22 17:39	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		01/20/22 17:39	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		01/20/22 17:39	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		01/20/22 17:39	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		01/20/22 17:39	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		01/20/22 17:39	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		01/20/22 17:39	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		01/20/22 17:39	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		01/20/22 17:39	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		01/20/22 17:39	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		01/20/22 17:39	1
2,2-Dichloropropane	<0.000360	U *	0.00500	0.000360	mg/L		01/20/22 17:39	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		01/20/22 17:39	1
Ethylbenzene	0.0252		0.00100	0.000515	mg/L		01/20/22 17:39	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		01/20/22 17:39	1
Isopropylbenzene	0.0118		0.00100	0.000161	mg/L		01/20/22 17:39	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		01/20/22 17:39	1
m,p-Xylenes	0.0980		0.0100	0.000330	mg/L		01/20/22 17:39	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		01/20/22 17:39	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		01/20/22 17:39	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		01/20/22 17:39	1
N-Propylbenzene	0.00592		0.00100	0.000179	mg/L		01/20/22 17:39	1
o-Xylene	0.0158		0.00100	0.000192	mg/L		01/20/22 17:39	1
p-Cymene (p-Isopropyltoluene)	0.00123		0.00100	0.000233	mg/L		01/20/22 17:39	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L		01/20/22 17:39	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		01/20/22 17:39	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		01/20/22 17:39	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		01/20/22 17:39	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		01/20/22 17:39	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		01/20/22 17:39	1
Toluene	0.0520		0.00100	0.000500	mg/L		01/20/22 17:39	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		01/20/22 17:39	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-10405-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-10405-1

Date Collected: 01/19/22 08:40

Matrix: Water

Date Received: 01/19/22 16:16

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			01/20/22 17:39	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 17:39	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 17:39	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/20/22 17:39	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/20/22 17:39	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/20/22 17:39	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/20/22 17:39	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/20/22 17:39	1
1,2,4-Trimethylbenzene	0.0296		0.00100	0.000252 mg/L			01/20/22 17:39	1
1,3,5-Trimethylbenzene	0.00947		0.00100	0.000279 mg/L			01/20/22 17:39	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/20/22 17:39	1
Xylenes, Total	0.114		0.0100	0.000330 mg/L			01/20/22 17:39	1
Total BTEX	0.198		0.0100	0.000214 mg/L			01/20/22 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		01/20/22 17:39	1
Dibromofluoromethane (Surr)	103		75 - 131		01/20/22 17:39	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		01/20/22 17:39	1
Toluene-d8 (Surr)	99		80 - 117		01/20/22 17:39	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.446	J	0.500	0.0711 mg/L			01/20/22 18:39	1
Nitrate as N	0.178		0.100	0.0391 mg/L			01/20/22 18:39	1
Chloride	223		0.500	0.200 mg/L			01/20/22 18:39	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/20/22 18:39	1
Fluoride	0.523		0.500	0.100 mg/L			01/20/22 18:39	1
Sulfate	43.6		0.500	0.109 mg/L			01/20/22 18:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	288		10.0	1.47 mg/L		01/21/22 09:00	01/21/22 14:44	50
Magnesium	57.2		0.200	0.0500 mg/L		01/21/22 09:00	01/21/22 14:26	1
Potassium	4.34		0.500	0.107 mg/L		01/21/22 09:00	01/21/22 14:26	1
Sodium	80.1		0.500	0.0667 mg/L		01/21/22 09:00	01/21/22 14:26	1
SiO2	70.2		1.07	0.0781 mg/L		01/21/22 09:00	01/21/22 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-1.41			%			01/24/22 15:00	1
Alkalinity	688		4.00	4.00 mg/L			01/20/22 15:28	1
Bicarbonate Alkalinity as CaCO3	688		4.00	4.00 mg/L			01/20/22 15:28	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/20/22 15:28	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			01/20/22 15:28	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			01/20/22 15:28	1
Total Dissolved Solids	1780		20.0	20.0 mg/L			01/21/22 08:13	1
pH	6.3	HF		SU			01/20/22 14:36	1
Temperature	18.0	HF		Celsius			01/20/22 14:36	1

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Surrogate Summary

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

Job ID: 880-10405-1
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)
860-19302-F-1 MS	Matrix Spike	105	106	101	99
860-19302-F-1 MSD	Matrix Spike Duplicate	103	105	102	100
880-10405-1	Levey Well	102	103	101	99
LCS 860-38259/3	Lab Control Sample	104	105	101	99
LCSD 860-38259/4	Lab Control Sample Dup	104	104	103	100
MB 860-38259/10	Method Blank	104	104	102	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 Hobb NM - 03B1417001

Job ID: 880-10405-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-38259/10

Matrix: Water

Analysis Batch: 38259

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			01/20/22 14:34	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/20/22 14:34	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/20/22 14:34	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/20/22 14:34	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/20/22 14:34	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/20/22 14:34	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/20/22 14:34	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/20/22 14:34	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/20/22 14:34	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/20/22 14:34	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/20/22 14:34	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/20/22 14:34	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/20/22 14:34	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/20/22 14:34	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/20/22 14:34	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/20/22 14:34	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/20/22 14:34	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/20/22 14:34	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/20/22 14:34	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/20/22 14:34	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/20/22 14:34	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/20/22 14:34	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/20/22 14:34	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/20/22 14:34	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/20/22 14:34	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/20/22 14:34	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/20/22 14:34	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/20/22 14:34	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/20/22 14:34	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/20/22 14:34	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/20/22 14:34	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 14:34	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			01/20/22 14:34	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/20/22 14:34	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/20/22 14:34	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/20/22 14:34	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/20/22 14:34	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/20/22 14:34	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/20/22 14:34	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/20/22 14:34	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/20/22 14:34	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/20/22 14:34	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/20/22 14:34	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/20/22 14:34	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/20/22 14:34	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/20/22 14:34	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/20/22 14:34	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/20/22 14:34	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-10405-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-38259/10

Matrix: Water

Analysis Batch: 38259

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			01/20/22 14:34	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/20/22 14:34	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 14:34	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 14:34	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/20/22 14:34	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/20/22 14:34	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/20/22 14:34	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/20/22 14:34	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/20/22 14:34	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/20/22 14:34	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/20/22 14:34	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/20/22 14:34	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/20/22 14:34	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			01/20/22 14:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		01/20/22 14:34	1
Dibromofluoromethane (Surr)	104		75 - 131		01/20/22 14:34	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		01/20/22 14:34	1
Toluene-d8 (Surr)	101		80 - 117		01/20/22 14:34	1

Lab Sample ID: LCS 860-38259/3

Matrix: Water

Analysis Batch: 38259

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	0.05180		mg/L		104	66 - 142
Bromobenzene	0.0500	0.05270		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05463		mg/L		109	60 - 140
Bromodichloromethane	0.0500	0.05628		mg/L		113	75 - 125
Bromoform	0.0500	0.05056		mg/L		101	75 - 125
Bromomethane	0.0500	0.04192		mg/L		84	60 - 140
2-Butanone	0.250	0.2504		mg/L		100	60 - 140
Carbon tetrachloride	0.0500	0.05426		mg/L		109	62 - 125
Chlorobenzene	0.0500	0.05102		mg/L		102	60 - 133
Chloroethane	0.0500	0.05198		mg/L		104	60 - 140
Chloroform	0.0500	0.05810		mg/L		116	70 - 130
Chloromethane	0.0500	0.04515		mg/L		90	60 - 140
2-Chlorotoluene	0.0500	0.05430		mg/L		109	73 - 125
4-Chlorotoluene	0.0500	0.05392		mg/L		108	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05687		mg/L		114	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05470		mg/L		109	74 - 125
Dibromochloromethane	0.0500	0.05305		mg/L		106	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04714		mg/L		94	59 - 125
1,2-Dibromoethane	0.0500	0.05150		mg/L		103	73 - 125
1,2-Dichlorobenzene	0.0500	0.05284		mg/L		106	75 - 125
1,3-Dichlorobenzene	0.0500	0.05260		mg/L		105	75 - 125
1,4-Dichlorobenzene	0.0500	0.05049		mg/L		101	75 - 125

Eurofins Midland

QC Sample Results

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

Job ID: 880-10405-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-38259/3

Matrix: Water

Analysis Batch: 38259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.05201		mg/L		104	70 - 130
1,1-Dichloroethane	0.0500	0.05715		mg/L		114	72 - 125
1,2-Dichloroethane	0.0500	0.05414		mg/L		108	68 - 127
1,1-Dichloroethene	0.0500	0.05390		mg/L		108	59 - 172
1,2-Dichloropropane	0.0500	0.05602		mg/L		112	74 - 125
1,3-Dichloropropane	0.0500	0.05327		mg/L		107	75 - 125
2,2-Dichloropropane	0.0500	0.06314	*+	mg/L		126	75 - 125
1,1-Dichloropropene	0.0500	0.05345		mg/L		107	75 - 125
Ethylbenzene	0.0500	0.05211		mg/L		104	75 - 125
Hexachlorobutadiene	0.0500	0.05166		mg/L		103	75 - 125
Isopropylbenzene	0.0500	0.05273		mg/L		105	75 - 125
Methylene Chloride	0.0500	0.05404		mg/L		108	75 - 125
m,p-Xylenes	0.0500	0.05223		mg/L		104	75 - 125
MTBE	0.0500	0.05785		mg/L		116	65 - 135
Naphthalene	0.0500	0.05067		mg/L		101	70 - 130
n-Butylbenzene	0.0500	0.05341		mg/L		107	75 - 125
N-Propylbenzene	0.0500	0.05384		mg/L		108	75 - 125
o-Xylene	0.0500	0.05288		mg/L		106	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05243		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05363		mg/L		107	75 - 125
Styrene	0.0500	0.05255		mg/L		105	75 - 125
tert-Butylbenzene	0.0500	0.05335		mg/L		107	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05537		mg/L		111	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05418		mg/L		108	74 - 125
Tetrachloroethene	0.0500	0.04866		mg/L		97	71 - 125
Toluene	0.0500	0.05056		mg/L		101	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05071		mg/L		101	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05392		mg/L		108	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05143		mg/L		103	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05191		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.05669		mg/L		113	75 - 125
1,1,2-Trichloroethane	0.0500	0.05415		mg/L		108	75 - 127
Trichloroethene	0.0500	0.05178		mg/L		104	62 - 137
Trichlorofluoromethane	0.0500	0.05461		mg/L		109	60 - 140
1,2,3-Trichloropropane	0.0500	0.05179		mg/L		104	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05252		mg/L		105	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05277		mg/L		106	60 - 140
Vinyl chloride	0.0500	0.04942		mg/L		99	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-10405-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-38259/4

Matrix: Water

Analysis Batch: 38259

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	0.05032		mg/L		101	66 - 142	3	25
Bromobenzene	0.0500	0.05192		mg/L		104	75 - 125	1	25
Bromochloromethane	0.0500	0.05198		mg/L		104	60 - 140	5	25
Bromodichloromethane	0.0500	0.05508		mg/L		110	75 - 125	2	25
Bromoform	0.0500	0.05100		mg/L		102	75 - 125	1	25
Bromomethane	0.0500	0.03967		mg/L		79	60 - 140	6	25
2-Butanone	0.250	0.2456		mg/L		98	60 - 140	2	25
Carbon tetrachloride	0.0500	0.05181		mg/L		104	62 - 125	5	25
Chlorobenzene	0.0500	0.05050		mg/L		101	60 - 133	1	25
Chloroethane	0.0500	0.04235		mg/L		85	60 - 140	20	25
Chloroform	0.0500	0.05500		mg/L		110	70 - 130	5	25
Chloromethane	0.0500	0.04264		mg/L		85	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05310		mg/L		106	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05274		mg/L		105	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.05423		mg/L		108	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.05333		mg/L		107	74 - 125	3	25
Dibromochloromethane	0.0500	0.05289		mg/L		106	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05002		mg/L		100	59 - 125	6	25
1,2-Dibromoethane	0.0500	0.05136		mg/L		103	73 - 125	0	25
1,2-Dichlorobenzene	0.0500	0.05202		mg/L		104	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.05149		mg/L		103	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04982		mg/L		100	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04946		mg/L		99	70 - 130	5	25
1,1-Dichloroethane	0.0500	0.05480		mg/L		110	72 - 125	4	25
1,2-Dichloroethane	0.0500	0.05229		mg/L		105	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.05049		mg/L		101	59 - 172	7	25
1,2-Dichloropropane	0.0500	0.05466		mg/L		109	74 - 125	2	25
1,3-Dichloropropane	0.0500	0.05341		mg/L		107	75 - 125	0	25
2,2-Dichloropropane	0.0500	0.06007		mg/L		120	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.05149		mg/L		103	75 - 125	4	25
Ethylbenzene	0.0500	0.05137		mg/L		103	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05143		mg/L		103	75 - 125	0	25
Isopropylbenzene	0.0500	0.05172		mg/L		103	75 - 125	2	25
Methylene Chloride	0.0500	0.05122		mg/L		102	75 - 125	5	25
m,p-Xylenes	0.0500	0.05125		mg/L		102	75 - 125	2	25
MTBE	0.0500	0.05536		mg/L		111	65 - 135	4	25
Naphthalene	0.0500	0.05611		mg/L		112	70 - 130	10	25
n-Butylbenzene	0.0500	0.05185		mg/L		104	75 - 125	3	25
N-Propylbenzene	0.0500	0.05235		mg/L		105	75 - 125	3	25
o-Xylene	0.0500	0.05200		mg/L		104	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05168		mg/L		103	75 - 125	1	25
sec-Butylbenzene	0.0500	0.05221		mg/L		104	75 - 125	3	25
Styrene	0.0500	0.05165		mg/L		103	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05198		mg/L		104	75 - 125	3	25
1,1,1,2-Tetrachloroethane	0.0500	0.05431		mg/L		109	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.05448		mg/L		109	74 - 125	1	25
Tetrachloroethene	0.0500	0.04814		mg/L		96	71 - 125	1	25
Toluene	0.0500	0.04975		mg/L		100	59 - 139	2	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-10405-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-38259/4

Matrix: Water

Analysis Batch: 38259

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	0.04849		mg/L		97	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05267		mg/L		105	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05563		mg/L		111	75 - 137	8	25
1,2,4-Trichlorobenzene	0.0500	0.05291		mg/L		106	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05454		mg/L		109	75 - 125	4	25
1,1,2-Trichloroethane	0.0500	0.05342		mg/L		107	75 - 127	1	25
Trichloroethene	0.0500	0.05039		mg/L		101	62 - 137	3	25
Trichlorofluoromethane	0.0500	0.05104		mg/L		102	60 - 140	7	25
1,2,3-Trichloropropane	0.0500	0.05440		mg/L		109	75 - 125	5	25
1,2,4-Trimethylbenzene	0.0500	0.05160		mg/L		103	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.05165		mg/L		103	60 - 140	2	25
Vinyl chloride	0.0500	0.04635		mg/L		93	60 - 140	6	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	100		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-38272/3

Matrix: Water

Analysis Batch: 38272

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			01/20/22 15:37	1
Chloride	<0.200	U	0.500	0.200 mg/L			01/20/22 15:37	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/20/22 15:37	1
Sulfate	<0.109	U	0.500	0.109 mg/L			01/20/22 15:37	1

Lab Sample ID: LCS 860-38272/4

Matrix: Water

Analysis Batch: 38272

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	9.997		mg/L		100	90 - 110
Chloride	10.0	10.06		mg/L		101	90 - 110
Fluoride	10.0	10.41		mg/L		104	90 - 110
Sulfate	10.0	9.832		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-38272/5

Matrix: Water

Analysis Batch: 38272

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	10.0	10.13		mg/L		101	90 - 110	1	20
Chloride	10.0	10.22		mg/L		102	90 - 110	2	20
Fluoride	10.0	10.52		mg/L		105	90 - 110	1	20

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QC Sample Results

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

Job ID: 880-10405-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-38272/5

Matrix: Water

Analysis Batch: 38272

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	9.974		mg/L		100	90 - 110	1	20

Lab Sample ID: MB 860-38273/3

Matrix: Water

Analysis Batch: 38273

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			01/20/22 15:37	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/20/22 15:37	1

Lab Sample ID: LCS 860-38273/4

Matrix: Water

Analysis Batch: 38273

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	10.0	10.03		mg/L		100	80 - 120		
Nitrite as N	5.00	4.644		mg/L		93	80 - 120		

Lab Sample ID: LCSD 860-38273/5

Matrix: Water

Analysis Batch: 38273

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	10.13		mg/L		101	80 - 120	1	20
Nitrite as N	5.00	4.691		mg/L		94	80 - 120	1	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-38379/1-A

Matrix: Water

Analysis Batch: 38485

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 38379

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		01/21/22 09:00	01/21/22 14:15	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		01/21/22 09:00	01/21/22 14:15	1
Potassium	<0.107	U	0.500	0.107 mg/L		01/21/22 09:00	01/21/22 14:15	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		01/21/22 09:00	01/21/22 14:15	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		01/21/22 09:00	01/21/22 14:15	1

Lab Sample ID: LCS 860-38379/2-A

Matrix: Water

Analysis Batch: 38485

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 38379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Calcium	25.0	25.52		mg/L		102	85 - 115		
Magnesium	25.0	25.00		mg/L		100	85 - 115		
Potassium	10.0	10.21		mg/L		102	85 - 115		
Sodium	25.0	24.11		mg/L		96	85 - 115		
SiO2	21.4	21.95		mg/L		103	85 - 115		

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QC Sample Results

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

Job ID: 880-10405-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-38379/3-A

Matrix: Water

Analysis Batch: 38485

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 38379

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
							Limits		
Calcium	25.0	26.10		mg/L		104	85 - 115	2	20
Magnesium	25.0	25.91		mg/L		104	85 - 115	4	20
Potassium	10.0	10.13		mg/L		101	85 - 115	1	20
Sodium	25.0	23.84		mg/L		95	85 - 115	1	20
SiO2	21.4	21.84		mg/L		102	85 - 115	1	20

Lab Sample ID: 880-10405-1 MS

Matrix: Water

Analysis Batch: 38485

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 38379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
									Limits	
Calcium	279	E	25.0	305.0	E 4	mg/L		104	70 - 130	
Magnesium	57.2		25.0	85.05	E	mg/L		111	70 - 130	
Potassium	4.34		10.0	15.61		mg/L		113	70 - 130	
Sodium	80.1		25.0	104.5		mg/L		98	70 - 130	
SiO2	70.2		21.4	94.64		mg/L		114	70 - 130	

Lab Sample ID: 880-10405-1 MSD

Matrix: Water

Analysis Batch: 38485

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 38379

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	279	E	25.0	305.3	E 4	mg/L		106	70 - 130	0	20
Magnesium	57.2		25.0	85.10	E	mg/L		112	70 - 130	0	20
Potassium	4.34		10.0	15.64		mg/L		113	70 - 130	0	20
Sodium	80.1		25.0	104.9		mg/L		99	70 - 130	0	20
SiO2	70.2		21.4	94.44		mg/L		113	70 - 130	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-38336/14

Matrix: Water

Analysis Batch: 38336

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			01/20/22 13:23	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/20/22 13:23	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/20/22 13:23	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			01/20/22 13:23	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			01/20/22 13:23	1

Lab Sample ID: LCS 860-38336/15

Matrix: Water

Analysis Batch: 38336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							Limits	
Alkalinity	250	260.5		mg/L		104	85 - 115	

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QC Sample Results

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

Job ID: 880-10405-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-38336/16
Matrix: Water
Analysis Batch: 38336

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	253.2		mg/L		101	85 - 115	3	20

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

Lab Sample ID: MB 860-38375/1
Matrix: Water
Analysis Batch: 38375

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			01/21/22 08:13	1

Lab Sample ID: LCS 860-38375/2
Matrix: Water
Analysis Batch: 38375

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	1107		mg/L		111	80 - 120	

Lab Sample ID: LCSD 860-38375/3
Matrix: Water
Analysis Batch: 38375

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	1137		mg/L		114	80 - 120	3	10

QC Association Summary

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

Job ID: 880-10405-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 38259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10405-1	Levey Well	Total/NA	Water	8260C	
MB 860-38259/10	Method Blank	Total/NA	Water	8260C	
LCS 860-38259/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-38259/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 38272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10405-1	Levey Well	Total/NA	Water	300.0	
MB 860-38272/3	Method Blank	Total/NA	Water	300.0	
LCS 860-38272/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-38272/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 38273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10405-1	Levey Well	Total/NA	Water	300.0	
MB 860-38273/3	Method Blank	Total/NA	Water	300.0	
LCS 860-38273/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-38273/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 38379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10405-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-38379/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-38379/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-38379/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
880-10405-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-10405-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 38485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10405-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	38379
880-10405-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	38379
MB 860-38379/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	38379
LCS 860-38379/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	38379
LCSD 860-38379/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	38379
880-10405-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	38379
880-10405-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	38379

General Chemistry

Analysis Batch: 38295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10405-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 38336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10405-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-38336/14	Method Blank	Total/NA	Water	SM 2320B	

Eurofins Midland

QC Association Summary

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

Job ID: 880-10405-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 38336 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-38336/15	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-38336/16	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 38375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10405-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-38375/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-38375/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-38375/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 38649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10405-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-10405-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-10405-1

Date Collected: 01/19/22 08:40

Matrix: Water

Date Received: 01/19/22 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	38259	01/20/22 17:39	EM	XEN STF
Total/NA	Analysis	300.0		1	38272	01/20/22 18:39	WP	XEN STF
Total/NA	Analysis	300.0		1	38273	01/20/22 18:39	WP	XEN STF
Total Recoverable	Prep	200.7			38379	01/21/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	38485	01/21/22 14:26	AV	XEN STF
Total Recoverable	Prep	200.7			38379	01/21/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	38485	01/21/22 14:44	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	38649	01/24/22 15:00	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	38336	01/20/22 15:28	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	38375	01/21/22 08:13	ADL	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	38295	01/20/22 14:36	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 Hobb NM - 03B1417001

Job ID: 880-10405-1
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
8260C		Water	Total BTEX
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 Hobb NM - 03B1417001

Job ID: 880-10405-1
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 Hobb NM - 03B1417001

Job ID: 880-10405-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10405-1	Levey Well	Water	01/19/22 08:40	01/19/22 16:16

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- 2
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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) 565-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480) 355-0800 Atlanta, GA (770) 449-8800 Tampa, FL (813) 392-1550
Hobbs, NM (575) 392-1550

M



880-10405 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:	210-219-8858	Email:	bjennings@ensolum.com

Work Order Comments

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

State of Project: *New Mexico*

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

Deliverables EDD ☐ ADaPT ☐ Other: _____

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

SAMPLE RECEIPT				Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	16/17			Thermometer ID					
Received intact:	(yes) No			#28					
Cooler Custody Seals:	Yes	No	(N/A)	Correction Factor:		10			
Sample Custody Seals:	Yes	No	(N/A)	Total Containers:					

Number of Containers

F, Cl, SO₄, B

: Ca, K, Mg, Na, Si

ity

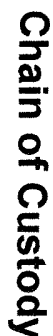
TAT starts the day received by the lab, if received by 4 30pm

[illegible]

Total	200.7 / 6010	200.8 / 6020:
Circle Method(s) and Metals(s) to be analyzed	8RCRA TCLP / SPLP 6010	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 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 		1-19-22 16:07	2		
3			4		
5			6		



M



880-10405 Chain of Custody

Hobbs NMI (5/5-392-1550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)

WWW.ACTIVUS.COM

3

Work Order Comments

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

State of Project: *New Mexico*

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

Deliverables EDD ☐ ADAPT ☐ Other _____

[illegible]

	Number of Containers
F, Cl, SO ₄ , B	
C, Ca, K, Mg, Na, Si	
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 for samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum change of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		1-19-22 16:07	2		
3			4		
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-10405-1

SDG Number: Hobbs NM

Login Number: 10405

List Number: 1

Creator: Teel, Brianna

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: 880-10405-1

SDG Number: Hobbs NM

Login Number: 10405

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 01/20/22 12:36 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: 880-10646-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobb 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:
1/31/2022 1:16:32 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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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 Hobb NM - 03B1417001

Laboratory Job ID: 880-10646-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-10646-1
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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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

Glossary

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

Definitions/Glossary

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

Job ID: 880-10646-1
SDG: Hobbs NM

Glossary (Continued)

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

- 1
- 2
- 3
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Case Narrative

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

Job ID: 880-10646-1
SDG: Hobbs NM

Job ID: 880-10646-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-10646-1

Receipt

The sample was received on 1/26/2022 4:29 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 2.0°C

GC/MS VOA

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-39057 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

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

Metals

Method 200.7: Due to the high concentration of calcium , the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-39305 and analytical batch 860-39431 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.

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Client Sample Results

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

Job ID: 880-10646-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-10646-1

Date Collected: 01/26/22 09:06

Matrix: Water

Date Received: 01/26/22 16:29

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00264		0.00100	0.000214 mg/L			01/27/22 18:06	1
Bromobenzene	<0.000300 U		0.00100	0.000300 mg/L			01/27/22 18:06	1
Bromochloromethane	<0.000209 U		0.00100	0.000209 mg/L			01/27/22 18:06	1
Bromodichloromethane	<0.000231 U		0.00100	0.000231 mg/L			01/27/22 18:06	1
Bromoform	<0.000630 U		0.00500	0.000630 mg/L			01/27/22 18:06	1
Bromomethane	<0.00105 U		0.00500	0.00105 mg/L			01/27/22 18:06	1
2-Butanone	<0.00270 U		0.0500	0.00270 mg/L			01/27/22 18:06	1
Carbon tetrachloride	<0.000423 U		0.00500	0.000423 mg/L			01/27/22 18:06	1
Chlorobenzene	<0.000159 U		0.00100	0.000159 mg/L			01/27/22 18:06	1
Chloroethane	<0.000433 U		0.0100	0.000433 mg/L			01/27/22 18:06	1
Chloroform	<0.000259 U		0.00100	0.000259 mg/L			01/27/22 18:06	1
Chloromethane	<0.000318 U		0.0100	0.000318 mg/L			01/27/22 18:06	1
2-Chlorotoluene	<0.000214 U		0.00100	0.000214 mg/L			01/27/22 18:06	1
4-Chlorotoluene	<0.000183 U		0.00100	0.000183 mg/L			01/27/22 18:06	1
cis-1,2-Dichloroethene	<0.000174 U		0.00100	0.000174 mg/L			01/27/22 18:06	1
cis-1,3-Dichloropropene	<0.000690 U		0.00500	0.000690 mg/L			01/27/22 18:06	1
Dibromochloromethane	<0.000739 U		0.00500	0.000739 mg/L			01/27/22 18:06	1
1,2-Dibromo-3-Chloropropane	<0.000319 U		0.00500	0.000319 mg/L			01/27/22 18:06	1
1,2-Dibromoethane	<0.000337 U		0.00500	0.000337 mg/L			01/27/22 18:06	1
1,2-Dichlorobenzene	<0.000236 U		0.00100	0.000236 mg/L			01/27/22 18:06	1
1,3-Dichlorobenzene	<0.000197 U		0.00100	0.000197 mg/L			01/27/22 18:06	1
1,4-Dichlorobenzene	<0.000199 U		0.00100	0.000199 mg/L			01/27/22 18:06	1
Dichlorodifluoromethane	<0.000316 U		0.00100	0.000316 mg/L			01/27/22 18:06	1
1,1-Dichloroethane	<0.000244 U		0.00100	0.000244 mg/L			01/27/22 18:06	1
1,2-Dichloroethane	<0.000285 U		0.00100	0.000285 mg/L			01/27/22 18:06	1
1,1-Dichloroethene	<0.000216 U		0.00100	0.000216 mg/L			01/27/22 18:06	1
1,2-Dichloropropane	<0.000396 U		0.00500	0.000396 mg/L			01/27/22 18:06	1
1,3-Dichloropropane	<0.000439 U		0.00500	0.000439 mg/L			01/27/22 18:06	1
2,2-Dichloropropane	<0.000360 U		0.00500	0.000360 mg/L			01/27/22 18:06	1
1,1-Dichloropropene	<0.000481 U		0.00500	0.000481 mg/L			01/27/22 18:06	1
Ethylbenzene	0.0103		0.00100	0.000515 mg/L			01/27/22 18:06	1
Hexachlorobutadiene	<0.00200 U		0.00500	0.00200 mg/L			01/27/22 18:06	1
Isopropylbenzene	0.00507		0.00100	0.000161 mg/L			01/27/22 18:06	1
Methylene Chloride	<0.00191 U		0.00500	0.00191 mg/L			01/27/22 18:06	1
m,p-Xylenes	0.0392		0.0100	0.000330 mg/L			01/27/22 18:06	1
MTBE	<0.000571 U		0.00500	0.000571 mg/L			01/27/22 18:06	1
Naphthalene	<0.00200 U		0.0100	0.00200 mg/L			01/27/22 18:06	1
n-Butylbenzene	<0.000286 U		0.00100	0.000286 mg/L			01/27/22 18:06	1
N-Propylbenzene	0.00258		0.00100	0.000179 mg/L			01/27/22 18:06	1
o-Xylene	0.00604		0.00100	0.000192 mg/L			01/27/22 18:06	1
p-Cymene (p-Isopropyltoluene)	0.000568 J		0.00100	0.000233 mg/L			01/27/22 18:06	1
sec-Butylbenzene	<0.000199 U		0.00100	0.000199 mg/L			01/27/22 18:06	1
Styrene	<0.000623 U		0.00100	0.000623 mg/L			01/27/22 18:06	1
tert-Butylbenzene	<0.000195 U		0.00100	0.000195 mg/L			01/27/22 18:06	1
1,1,1,2-Tetrachloroethane	<0.000327 U		0.00100	0.000327 mg/L			01/27/22 18:06	1
1,1,1,2,2-Tetrachloroethane	<0.000284 U		0.00100	0.000284 mg/L			01/27/22 18:06	1
Tetrachloroethene	<0.000500 U		0.00100	0.000500 mg/L			01/27/22 18:06	1
Toluene	0.0206		0.00100	0.000500 mg/L			01/27/22 18:06	1
trans-1,2-Dichloroethene	<0.000256 U		0.00100	0.000256 mg/L			01/27/22 18:06	1

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Client Sample Results

Client: Ensolum

Job ID: 880-10646-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-10646-1

Date Collected: 01/26/22 09:06

Matrix: Water

Date Received: 01/26/22 16:29

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			01/27/22 18:06	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/27/22 18:06	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/27/22 18:06	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/27/22 18:06	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/27/22 18:06	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/27/22 18:06	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/27/22 18:06	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/27/22 18:06	1
1,2,4-Trimethylbenzene	0.0139		0.00100	0.000252 mg/L			01/27/22 18:06	1
1,3,5-Trimethylbenzene	0.00433		0.00100	0.000279 mg/L			01/27/22 18:06	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/27/22 18:06	1
Xylenes, Total	0.0452		0.0100	0.000330 mg/L			01/27/22 18:06	1
Total BTEX	0.0788		0.0100	0.000214 mg/L			01/27/22 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		01/27/22 18:06	1
Dibromofluoromethane (Surr)	95		75 - 131		01/27/22 18:06	1
1,2-Dichloroethane-d4 (Surr)	109		63 - 144		01/27/22 18:06	1
Toluene-d8 (Surr)	103		80 - 117		01/27/22 18:06	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.440	J	0.500	0.0711 mg/L			01/27/22 17:55	1
Nitrate as N	0.181		0.100	0.0391 mg/L			01/27/22 17:55	1
Chloride	220		0.500	0.200 mg/L			01/27/22 17:55	1
Nitrite as N	0.0834	J	0.100	0.0293 mg/L			01/27/22 17:55	1
Fluoride	0.580		0.500	0.100 mg/L			01/27/22 17:55	1
Sulfate	41.7		0.500	0.109 mg/L			01/27/22 17:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	286		10.0	1.47 mg/L		01/28/22 09:00	01/28/22 14:29	50
Magnesium	56.4		0.200	0.0500 mg/L		01/28/22 09:00	01/28/22 14:11	1
Potassium	4.50		0.500	0.107 mg/L		01/28/22 09:00	01/28/22 14:11	1
Sodium	85.1		0.500	0.0667 mg/L		01/28/22 09:00	01/28/22 14:11	1
SiO2	67.8		1.07	0.0781 mg/L		01/28/22 09:00	01/28/22 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-1.64			%			01/31/22 10:20	1
Alkalinity	706		4.00	4.00 mg/L			01/28/22 10:23	1
Bicarbonate Alkalinity as CaCO3	706		4.00	4.00 mg/L			01/28/22 10:23	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/28/22 10:23	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			01/28/22 10:23	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			01/28/22 10:23	1
Total Dissolved Solids	1140		10.0	10.0 mg/L			01/27/22 13:13	1
pH	6.4	HF		SU			01/27/22 16:52	1
Temperature	18.9	HF		Celsius			01/27/22 16:52	1

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Surrogate Summary

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

Job ID: 880-10646-1
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)
860-19767-G-1 MS	Matrix Spike	101	99	105	101
880-10646-1	Levey Well	101	95	109	103
LCS 860-39057/3	Lab Control Sample	100	98	105	101
LCSD 860-39057/4	Lab Control Sample Dup	102	97	103	100
MB 860-39057/9	Method Blank	105	98	108	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 Hobb NM - 03B1417001

Job ID: 880-10646-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-39057/9

Matrix: Water

Analysis Batch: 39057

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			01/27/22 10:55	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/27/22 10:55	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/27/22 10:55	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/27/22 10:55	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/27/22 10:55	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/27/22 10:55	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/27/22 10:55	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/27/22 10:55	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/27/22 10:55	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/27/22 10:55	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/27/22 10:55	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/27/22 10:55	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/27/22 10:55	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/27/22 10:55	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/27/22 10:55	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/27/22 10:55	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/27/22 10:55	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/27/22 10:55	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/27/22 10:55	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/27/22 10:55	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/27/22 10:55	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/27/22 10:55	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/27/22 10:55	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/27/22 10:55	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/27/22 10:55	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/27/22 10:55	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/27/22 10:55	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/27/22 10:55	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/27/22 10:55	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/27/22 10:55	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/27/22 10:55	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/27/22 10:55	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			01/27/22 10:55	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/27/22 10:55	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/27/22 10:55	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/27/22 10:55	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/27/22 10:55	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/27/22 10:55	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/27/22 10:55	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/27/22 10:55	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/27/22 10:55	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/27/22 10:55	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/27/22 10:55	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/27/22 10:55	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/27/22 10:55	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/27/22 10:55	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/27/22 10:55	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/27/22 10:55	1

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QC Sample Results

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

Job ID: 880-10646-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-39057/9

Matrix: Water

Analysis Batch: 39057

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			01/27/22 10:55	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/27/22 10:55	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/27/22 10:55	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/27/22 10:55	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/27/22 10:55	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/27/22 10:55	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/27/22 10:55	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/27/22 10:55	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/27/22 10:55	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/27/22 10:55	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/27/22 10:55	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/27/22 10:55	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/27/22 10:55	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			01/27/22 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		74 - 124		01/27/22 10:55	1
Dibromofluoromethane (Surr)	98		75 - 131		01/27/22 10:55	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		01/27/22 10:55	1
Toluene-d8 (Surr)	101		80 - 117		01/27/22 10:55	1

Lab Sample ID: LCS 860-39057/3

Matrix: Water

Analysis Batch: 39057

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	0.04900		mg/L		98	66 - 142
Bromobenzene	0.0500	0.05204		mg/L		104	75 - 125
Bromochloromethane	0.0500	0.04839		mg/L		97	60 - 140
Bromodichloromethane	0.0500	0.04650		mg/L		93	75 - 125
Bromoform	0.0500	0.03913		mg/L		78	75 - 125
Bromomethane	0.0500	0.03581		mg/L		72	60 - 140
2-Butanone	0.250	0.2360		mg/L		94	60 - 140
Carbon tetrachloride	0.0500	0.04742		mg/L		95	62 - 125
Chlorobenzene	0.0500	0.05121		mg/L		102	60 - 133
Chloroethane	0.0500	0.04320		mg/L		86	60 - 140
Chloroform	0.0500	0.05073		mg/L		101	70 - 130
Chloromethane	0.0500	0.04018		mg/L		80	60 - 140
2-Chlorotoluene	0.0500	0.05263		mg/L		105	73 - 125
4-Chlorotoluene	0.0500	0.05217		mg/L		104	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05023		mg/L		100	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04777		mg/L		96	74 - 125
Dibromochloromethane	0.0500	0.04435		mg/L		89	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04335		mg/L		87	59 - 125
1,2-Dibromoethane	0.0500	0.04837		mg/L		97	73 - 125
1,2-Dichlorobenzene	0.0500	0.05264		mg/L		105	75 - 125
1,3-Dichlorobenzene	0.0500	0.05285		mg/L		106	75 - 125
1,4-Dichlorobenzene	0.0500	0.05256		mg/L		105	75 - 125

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QC Sample Results

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

Job ID: 880-10646-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-39057/3

Matrix: Water

Analysis Batch: 39057

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.04558		mg/L		91	70 - 130
1,1-Dichloroethane	0.0500	0.05008		mg/L		100	72 - 125
1,2-Dichloroethane	0.0500	0.05181		mg/L		104	68 - 127
1,1-Dichloroethene	0.0500	0.04612		mg/L		92	59 - 172
1,2-Dichloropropane	0.0500	0.05007		mg/L		100	74 - 125
1,3-Dichloropropane	0.0500	0.05000		mg/L		100	75 - 125
2,2-Dichloropropane	0.0500	0.05322		mg/L		106	75 - 125
1,1-Dichloropropene	0.0500	0.04882		mg/L		98	75 - 125
Ethylbenzene	0.0500	0.05111		mg/L		102	75 - 125
Hexachlorobutadiene	0.0500	0.05736		mg/L		115	75 - 125
Isopropylbenzene	0.0500	0.05156		mg/L		103	75 - 125
Methylene Chloride	0.0500	0.04260		mg/L		85	75 - 125
m,p-Xylenes	0.0500	0.05005		mg/L		100	75 - 125
MTBE	0.0500	0.04937		mg/L		99	65 - 135
Naphthalene	0.0500	0.05456		mg/L		109	70 - 130
n-Butylbenzene	0.0500	0.05435		mg/L		109	75 - 125
N-Propylbenzene	0.0500	0.05211		mg/L		104	75 - 125
o-Xylene	0.0500	0.05045		mg/L		101	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05271		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05327		mg/L		107	75 - 125
Styrene	0.0500	0.04952		mg/L		99	75 - 125
tert-Butylbenzene	0.0500	0.05204		mg/L		104	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04882		mg/L		98	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05139		mg/L		103	74 - 125
Tetrachloroethene	0.0500	0.05044		mg/L		101	71 - 125
Toluene	0.0500	0.04903		mg/L		98	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04491		mg/L		90	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04824		mg/L		96	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05676		mg/L		114	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05518		mg/L		110	75 - 135
1,1,1-Trichloroethane	0.0500	0.04968		mg/L		99	75 - 125
1,1,2-Trichloroethane	0.0500	0.04943		mg/L		99	75 - 127
Trichloroethene	0.0500	0.05011		mg/L		100	62 - 137
Trichlorofluoromethane	0.0500	0.05237		mg/L		105	60 - 140
1,2,3-Trichloropropane	0.0500	0.04985		mg/L		100	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05131		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05147		mg/L		103	60 - 140
Vinyl chloride	0.0500	0.04286		mg/L		86	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
Toluene-d8 (Surr)	101		80 - 117

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QC Sample Results

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

Job ID: 880-10646-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-39057/4

Matrix: Water

Analysis Batch: 39057

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	0.04857		mg/L		97	66 - 142	1	25
Bromobenzene	0.0500	0.05141		mg/L		103	75 - 125	1	25
Bromochloromethane	0.0500	0.04747		mg/L		95	60 - 140	2	25
Bromodichloromethane	0.0500	0.04582		mg/L		92	75 - 125	1	25
Bromoform	0.0500	0.03775		mg/L		75	75 - 125	4	25
Bromomethane	0.0500	0.03899		mg/L		78	60 - 140	8	25
2-Butanone	0.250	0.2250		mg/L		90	60 - 140	5	25
Carbon tetrachloride	0.0500	0.04659		mg/L		93	62 - 125	2	25
Chlorobenzene	0.0500	0.05001		mg/L		100	60 - 133	2	25
Chloroethane	0.0500	0.04146		mg/L		83	60 - 140	4	25
Chloroform	0.0500	0.04950		mg/L		99	70 - 130	2	25
Chloromethane	0.0500	0.03930		mg/L		79	60 - 140	2	25
2-Chlorotoluene	0.0500	0.05189		mg/L		104	73 - 125	1	25
4-Chlorotoluene	0.0500	0.05231		mg/L		105	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04906		mg/L		98	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.04780		mg/L		96	74 - 125	0	25
Dibromochloromethane	0.0500	0.04353		mg/L		87	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04072		mg/L		81	59 - 125	6	25
1,2-Dibromoethane	0.0500	0.04706		mg/L		94	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.05184		mg/L		104	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.05253		mg/L		105	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.05202		mg/L		104	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04353		mg/L		87	70 - 130	5	25
1,1-Dichloroethane	0.0500	0.04926		mg/L		99	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.05112		mg/L		102	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.04647		mg/L		93	59 - 172	1	25
1,2-Dichloropropane	0.0500	0.04967		mg/L		99	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04867		mg/L		97	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05187		mg/L		104	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04752		mg/L		95	75 - 125	3	25
Ethylbenzene	0.0500	0.05072		mg/L		101	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05783		mg/L		116	75 - 125	1	25
Isopropylbenzene	0.0500	0.05129		mg/L		103	75 - 125	1	25
Methylene Chloride	0.0500	0.04179		mg/L		84	75 - 125	2	25
m,p-Xylenes	0.0500	0.05027		mg/L		101	75 - 125	0	25
MTBE	0.0500	0.04703		mg/L		94	65 - 135	5	25
Naphthalene	0.0500	0.04923		mg/L		98	70 - 130	10	25
n-Butylbenzene	0.0500	0.05478		mg/L		110	75 - 125	1	25
N-Propylbenzene	0.0500	0.05310		mg/L		106	75 - 125	2	25
o-Xylene	0.0500	0.04978		mg/L		100	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05312		mg/L		106	75 - 125	1	25
sec-Butylbenzene	0.0500	0.05370		mg/L		107	75 - 125	1	25
Styrene	0.0500	0.04883		mg/L		98	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05292		mg/L		106	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.04683		mg/L		94	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.04820		mg/L		96	74 - 125	6	25
Tetrachloroethene	0.0500	0.05014		mg/L		100	71 - 125	1	25
Toluene	0.0500	0.04880		mg/L		98	59 - 139	0	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-10646-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-39057/4

Matrix: Water

Analysis Batch: 39057

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	0.04392		mg/L		88	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.04671		mg/L		93	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05178		mg/L		104	75 - 137	9	25
1,2,4-Trichlorobenzene	0.0500	0.05271		mg/L		105	75 - 135	5	25
1,1,1-Trichloroethane	0.0500	0.04920		mg/L		98	75 - 125	1	25
1,1,2-Trichloroethane	0.0500	0.04766		mg/L		95	75 - 127	4	25
Trichloroethene	0.0500	0.05040		mg/L		101	62 - 137	1	25
Trichlorofluoromethane	0.0500	0.05289		mg/L		106	60 - 140	1	25
1,2,3-Trichloropropane	0.0500	0.04493		mg/L		90	75 - 125	10	25
1,2,4-Trimethylbenzene	0.0500	0.05167		mg/L		103	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.05207		mg/L		104	60 - 140	1	25
Vinyl chloride	0.0500	0.04260		mg/L		85	60 - 140	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	100		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-39140/3

Matrix: Water

Analysis Batch: 39140

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			01/27/22 16:30	1
Chloride	<0.200	U	0.500	0.200 mg/L			01/27/22 16:30	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/27/22 16:30	1
Sulfate	<0.109	U	0.500	0.109 mg/L			01/27/22 16:30	1

Lab Sample ID: LCS 860-39140/4

Matrix: Water

Analysis Batch: 39140

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	9.939		mg/L		99	90 - 110
Fluoride	10.0	10.04		mg/L		100	90 - 110
Sulfate	10.0	9.934		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-39140/5

Matrix: Water

Analysis Batch: 39140

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	10.0	10.19		mg/L		102	90 - 110	0	20
Chloride	10.0	9.963		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.10		mg/L		101	90 - 110	1	20

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QC Sample Results

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

Job ID: 880-10646-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-39140/5

Matrix: Water

Analysis Batch: 39140

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	9.963		mg/L		100	90 - 110	0	20

Lab Sample ID: MB 860-39141/3

Matrix: Water

Analysis Batch: 39141

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			01/27/22 16:30	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/27/22 16:30	1

Lab Sample ID: LCS 860-39141/4

Matrix: Water

Analysis Batch: 39141

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	9.950		mg/L		100	80 - 120	
Nitrite as N	5.00	4.727		mg/L		95	80 - 120	

Lab Sample ID: LCSD 860-39141/5

Matrix: Water

Analysis Batch: 39141

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	9.986		mg/L		100	80 - 120	0	20
Nitrite as N	5.00	4.746		mg/L		95	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-39305/1-A

Matrix: Water

Analysis Batch: 39431

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 39305

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		01/28/22 09:00	01/28/22 13:57	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		01/28/22 09:00	01/28/22 13:57	1
Potassium	<0.107	U	0.500	0.107 mg/L		01/28/22 09:00	01/28/22 13:57	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		01/28/22 09:00	01/28/22 13:57	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		01/28/22 09:00	01/28/22 13:57	1

Lab Sample ID: LCS 860-39305/2-A

Matrix: Water

Analysis Batch: 39431

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 39305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Calcium	25.0	25.47		mg/L		102	85 - 115	
Magnesium	25.0	25.04		mg/L		100	85 - 115	
Potassium	10.0	10.26		mg/L		103	85 - 115	
Sodium	25.0	25.31		mg/L		101	85 - 115	
SiO2	21.4	21.32		mg/L		100	85 - 115	

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QC Sample Results

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

Job ID: 880-10646-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-39305/3-A

Matrix: Water

Analysis Batch: 39431

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 39305

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
							Limits		
Calcium	25.0	25.45		mg/L		102	85 - 115	0	20
Magnesium	25.0	24.96		mg/L		100	85 - 115	0	20
Potassium	10.0	10.27		mg/L		103	85 - 115	0	20
Sodium	25.0	25.24		mg/L		101	85 - 115	0	20
SiO2	21.4	21.35		mg/L		100	85 - 115	0	20

Lab Sample ID: 880-10646-1 MS

Matrix: Water

Analysis Batch: 39431

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 39305

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Calcium	279	E	25.0	288.9	E 4	mg/L		38	70 - 130		
Magnesium	56.4		25.0	78.49		mg/L		88	70 - 130		
Potassium	4.50		10.0	15.16		mg/L		107	70 - 130		
Sodium	85.1		25.0	106.5		mg/L		86	70 - 130		
SiO2	67.8		21.4	86.39		mg/L		87	70 - 130		

Lab Sample ID: 880-10646-1 MSD

Matrix: Water

Analysis Batch: 39431

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 39305

	Sample	Sample	Spike	MSD	MSD			%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	279	E	25.0	289.1	E 4	mg/L		38	70 - 130	0	20
Magnesium	56.4		25.0	78.55		mg/L		89	70 - 130	0	20
Potassium	4.50		10.0	15.21		mg/L		107	70 - 130	0	20
Sodium	85.1		25.0	106.4		mg/L		85	70 - 130	0	20
SiO2	67.8		21.4	86.76		mg/L		88	70 - 130	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-39383/3

Matrix: Water

Analysis Batch: 39383

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			01/28/22 09:37	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/28/22 09:37	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/28/22 09:37	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			01/28/22 09:37	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			01/28/22 09:37	1

Lab Sample ID: LCS 860-39383/4

Matrix: Water

Analysis Batch: 39383

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							Limits	
Alkalinity	250	271.9		mg/L		109	85 - 115	

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QC Sample Results

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

Job ID: 880-10646-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-39383/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 39383											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity			250	259.3		mg/L		104	85 - 115	5	20

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

Lab Sample ID: MB 860-39172/1				Client Sample ID: Method Blank							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 39172											
Analyte		MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed		Dil Fac
Total Dissolved Solids		<5.00	U	5.00		5.00 mg/L			01/27/22 13:13		1

Lab Sample ID: LCS 860-39172/2				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 39172											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1016		mg/L		102	80 - 120		

Lab Sample ID: LCSD 860-39172/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 39172											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1037		mg/L		104	80 - 120	2	10

QC Association Summary

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

Job ID: 880-10646-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 39057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10646-1	Levey Well	Total/NA	Water	8260C	
MB 860-39057/9	Method Blank	Total/NA	Water	8260C	
LCS 860-39057/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-39057/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 39140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10646-1	Levey Well	Total/NA	Water	300.0	
MB 860-39140/3	Method Blank	Total/NA	Water	300.0	
LCS 860-39140/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-39140/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 39141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10646-1	Levey Well	Total/NA	Water	300.0	
MB 860-39141/3	Method Blank	Total/NA	Water	300.0	
LCS 860-39141/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-39141/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 39305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10646-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-39305/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-39305/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-39305/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
880-10646-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-10646-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 39431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10646-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	39305
880-10646-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	39305
MB 860-39305/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	39305
LCS 860-39305/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	39305
LCSD 860-39305/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	39305
880-10646-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	39305
880-10646-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	39305

General Chemistry

Analysis Batch: 39172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10646-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-39172/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-39172/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-39172/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 880-10646-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 39249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10646-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 39383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10646-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-39383/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-39383/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-39383/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 39580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10646-1	Levey Well	Total/NA	Water	SM 1030E	

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

Lab Chronicle

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

Job ID: 880-10646-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 01/26/22 09:06
Date Received: 01/26/22 16:29

Lab Sample ID: 880-10646-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	39057	01/27/22 18:06	NA	XEN STF
Total/NA	Analysis	300.0		1	39140	01/27/22 17:55	WP	XEN STF
Total/NA	Analysis	300.0		1	39141	01/27/22 17:55	WP	XEN STF
Total Recoverable	Prep	200.7			39305	01/28/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	39431	01/28/22 14:11	AV	XEN STF
Total Recoverable	Prep	200.7			39305	01/28/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	39431	01/28/22 14:29	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	39580	01/31/22 10:20	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	39383	01/28/22 10:23	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	39172	01/27/22 13:13	ADL	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	39249	01/27/22 16:52	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 Hobb NM - 03B1417001

Job ID: 880-10646-1
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
8260C		Water	Total BTEX
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 Hobb NM - 03B1417001

Job ID: 880-10646-1
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 Hobb NM - 03B1417001

Job ID: 880-10646-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10646-1	Levey Well	Water	01/26/22 09:06	01/26/22 16:29

- 1
- 2
- 3
- 4
- 5
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- 11
- 12
- 13
- 14



Work Order No: 10646

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

[illegible]

List of Containers	
	F, Cl, SO ₄ , B
	Ca, K, Mg, Na, Si
y	
TAT starts the day received by the lab, if received by 4:30pm	

[illegible]

Total	200.7 / 6010	200.8 / 6020:	
<i>Circle Method(s) and Metal(s) to be analyzed</i>	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 \$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
		1-20-22			
		11-01-27			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-10646-1

SDG Number: Hobbs NM

Login Number: 10646

List Number: 1

Creator: Teel, Brianna

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: 880-10646-1

SDG Number: Hobbs NM

Login Number: 10646

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 01/27/22 11:55 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: 880-9934-1

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:
1/12/2022 4:42:56 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.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: 880-9934-1

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Definitions/Glossary

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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)

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-9934-1

Glossary (Continued)

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

- 1
- 2
- 3
- 4
- 5
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- 14

Case Narrative

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

Job ID: 880-9934-1

Job ID: 880-9934-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-9934-1

Receipt

The samples were received on 1/6/2022 4:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC/MS VOA

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 860-36922 recovered outside control limits for the following analytes:Naphthalene.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (880-9934-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike(MS) recoveries for the following sample associated with analytical batch 860-36922 were outside control limits: (880-9933-G-1 MS). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260C: The method blank for preparation batch MB 860-36922/9 contained 1,2-Dibromo-3-Chloropropane above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

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 860-36780 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: 880-9934-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-9934-1

Date Collected: 01/06/22 08:50

Matrix: Water

Date Received: 01/06/22 16:02

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			01/10/22 14:01	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/10/22 14:01	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/10/22 14:01	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/10/22 14:01	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/10/22 14:01	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/10/22 14:01	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/10/22 14:01	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/10/22 14:01	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/10/22 14:01	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/10/22 14:01	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/10/22 14:01	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/10/22 14:01	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/10/22 14:01	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/10/22 14:01	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/10/22 14:01	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/10/22 14:01	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/10/22 14:01	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/10/22 14:01	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/10/22 14:01	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/10/22 14:01	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/10/22 14:01	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/10/22 14:01	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/10/22 14:01	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/10/22 14:01	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/10/22 14:01	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/10/22 14:01	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/10/22 14:01	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/10/22 14:01	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/10/22 14:01	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/10/22 14:01	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/10/22 14:01	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 14:01	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			01/10/22 14:01	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/10/22 14:01	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/10/22 14:01	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/10/22 14:01	1
Naphthalene	<0.00200	U *1	0.0100	0.00200 mg/L			01/10/22 14:01	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/10/22 14:01	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/10/22 14:01	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/10/22 14:01	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/10/22 14:01	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/10/22 14:01	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/10/22 14:01	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/10/22 14:01	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/10/22 14:01	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/10/22 14:01	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/10/22 14:01	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/10/22 14:01	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			01/10/22 14:01	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-9934-1

Date Collected: 01/06/22 08:50

Matrix: Water

Date Received: 01/06/22 16:02

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			01/10/22 14:01	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 14:01	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 14:01	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/10/22 14:01	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/10/22 14:01	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/10/22 14:01	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/10/22 14:01	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/10/22 14:01	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/10/22 14:01	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/10/22 14:01	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/10/22 14:01	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/10/22 14:01	1
Total BTEX	<0.00100	U	0.0100	0.00100 mg/L			01/10/22 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		01/10/22 14:01	1
Dibromofluoromethane (Surr)	101		75 - 131		01/10/22 14:01	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		01/10/22 14:01	1
Toluene-d8 (Surr)	104		80 - 117		01/10/22 14:01	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			01/04/22 10:13	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		01/07/22 15:15	01/07/22 17:49	1
Diesel Range Organics (Over C10-C28)	<0.932	U	4.72	0.932 mg/L		01/07/22 15:15	01/07/22 17:49	1
Oil Range Organics (Over C28-C36)	<0.900	U	4.72	0.900 mg/L		01/07/22 15:15	01/07/22 17:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135			01/07/22 15:15	01/07/22 17:49	1
o-Terphenyl	94		70 - 135			01/07/22 15:15	01/07/22 17:49	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	138		0.500	0.200 mg/L			01/07/22 22:32	1
Nitrate as N	0.180		0.100	0.0391 mg/L			01/07/22 22:32	1
Fluoride	0.471	J	0.500	0.100 mg/L			01/07/22 22:32	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/07/22 22:32	1
Sulfate	43.2		0.500	0.109 mg/L			01/07/22 22:32	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	335		4.00	4.00 mg/L			01/11/22 14:47	1
Bicarbonate Alkalinity as CaCO3	335		4.00	4.00 mg/L			01/11/22 14:47	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/11/22 14:47	1
Carbon dioxide	362			mg/L			01/12/22 10:18	1
Carbon Dioxide, Free	67.0			mg/L			01/12/22 10:18	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-9934-1

Date Collected: 01/06/22 08:50

Matrix: Water

Date Received: 01/06/22 16:02

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.0	HF		SU			01/10/22 13:44	1
Temperature	18.0	HF		Celsius			01/10/22 13:44	1
Sulfide	<0.495	U	5.00	0.495 mg/L			01/07/22 14:50	1

Client Sample ID: MW-2

Lab Sample ID: 880-9934-2

Date Collected: 01/06/22 11:20

Matrix: Water

Date Received: 01/06/22 16:02

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0360		0.00100	0.000214 mg/L			01/10/22 14:22	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/10/22 14:22	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/10/22 14:22	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/10/22 14:22	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/10/22 14:22	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/10/22 14:22	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/10/22 14:22	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/10/22 14:22	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/10/22 14:22	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/10/22 14:22	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/10/22 14:22	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/10/22 14:22	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/10/22 14:22	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/10/22 14:22	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/10/22 14:22	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/10/22 14:22	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/10/22 14:22	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/10/22 14:22	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/10/22 14:22	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/10/22 14:22	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/10/22 14:22	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/10/22 14:22	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/10/22 14:22	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/10/22 14:22	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/10/22 14:22	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/10/22 14:22	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/10/22 14:22	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/10/22 14:22	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/10/22 14:22	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/10/22 14:22	1
Ethylbenzene	0.0309		0.00100	0.000515 mg/L			01/10/22 14:22	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 14:22	1
Isopropylbenzene	0.0208		0.00100	0.000161 mg/L			01/10/22 14:22	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/10/22 14:22	1
m,p-Xylenes	0.253		0.0500	0.00165 mg/L			01/10/22 14:45	5
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/10/22 14:22	1
Naphthalene	<0.00200	U *1	0.0100	0.00200 mg/L			01/10/22 14:22	1
n-Butylbenzene	0.00192		0.00100	0.000286 mg/L			01/10/22 14:22	1
N-Propylbenzene	0.00488		0.00100	0.000179 mg/L			01/10/22 14:22	1
o-Xylene	0.0229		0.00100	0.000192 mg/L			01/10/22 14:22	1

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Client Sample Results

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-9934-2

Date Collected: 01/06/22 11:20

Matrix: Water

Date Received: 01/06/22 16:02

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Cymene (p-Isopropyltoluene)	0.00265		0.00100	0.000233 mg/L			01/10/22 14:22	1
sec-Butylbenzene	0.00273		0.00100	0.000199 mg/L			01/10/22 14:22	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/10/22 14:22	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/10/22 14:22	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/10/22 14:22	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/10/22 14:22	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/10/22 14:22	1
Toluene	0.00656		0.00100	0.000500 mg/L			01/10/22 14:22	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			01/10/22 14:22	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/10/22 14:22	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 14:22	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 14:22	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/10/22 14:22	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/10/22 14:22	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/10/22 14:22	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/10/22 14:22	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/10/22 14:22	1
1,2,4-Trimethylbenzene	0.108		0.00100	0.000252 mg/L			01/10/22 14:22	1
1,3,5-Trimethylbenzene	0.0273		0.00100	0.000279 mg/L			01/10/22 14:22	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/10/22 14:22	1
Xylenes, Total	0.274		0.0500	0.00165 mg/L			01/10/22 14:45	5
Total BTEX	0.344		0.0500	0.00500 mg/L			01/10/22 14:45	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		01/10/22 14:22	1
4-Bromofluorobenzene (Surr)	103		74 - 124		01/10/22 14:45	5
Dibromofluoromethane (Surr)	102		75 - 131		01/10/22 14:22	1
Dibromofluoromethane (Surr)	101		75 - 131		01/10/22 14:45	5
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		01/10/22 14:22	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		01/10/22 14:45	5
Toluene-d8 (Surr)	102		80 - 117		01/10/22 14:22	1
Toluene-d8 (Surr)	99		80 - 117		01/10/22 14:45	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.31	J	4.63	0.915 mg/L			01/04/22 10:13	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	1.31	J	4.63	0.915	mg/L		01/07/22 15:15	01/07/22 18:31	1
Diesel Range Organics (Over C10-C28)	<0.915	U	4.63	0.915	mg/L		01/07/22 15:15	01/07/22 18:31	1
Oil Range Organics (Over C28-C36)	<0.883	U	4.63	0.883	mg/L		01/07/22 15:15	01/07/22 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135				01/07/22 15:15	01/07/22 18:31	1
o-Terphenyl	93		70 - 135				01/07/22 15:15	01/07/22 18:31	1

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Client Sample Results

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

Job ID: 880-9934-1

Client Sample ID: MW-2
Date Collected: 01/06/22 11:20
Date Received: 01/06/22 16:02

Lab Sample ID: 880-9934-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		0.500	0.200	mg/L			01/08/22 00:38	1
Nitrate as N	0.559		0.100	0.0391	mg/L			01/08/22 00:38	1
Fluoride	<0.100	U	0.500	0.100	mg/L			01/08/22 00:38	1
Nitrite as N	0.746		0.100	0.0293	mg/L			01/08/22 00:38	1
Sulfate	97.5		0.500	0.109	mg/L			01/08/22 00:38	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1300		4.00	4.00	mg/L			01/11/22 15:03	1
Bicarbonate Alkalinity as CaCO3	1300		4.00	4.00	mg/L			01/11/22 15:03	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			01/11/22 15:03	1
Carbon dioxide	2170				mg/L			01/12/22 10:18	1
Carbon Dioxide, Free	1030				mg/L			01/12/22 10:18	1
pH	6.4	HF			SU			01/10/22 13:44	1
Temperature	18.2	HF			Celsius			01/10/22 13:44	1
Sulfide	<0.495	U	5.00	0.495	mg/L			01/07/22 14:50	1

Surrogate Summary

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

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)
880-9933-G-1 MS	Matrix Spike	100	103	100	99
880-9934-1	MW-1	101	101	102	104
880-9934-2	MW-2	99	102	103	102
880-9934-2	MW-2	103	101	103	99
LCS 860-36922/28	Lab Control Sample	100	102	99	98
LCSD 860-36922/4	Lab Control Sample Dup	98	101	99	98
MB 860-36922/9	Method Blank	101	100	101	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
880-9934-1	MW-1	98	94
880-9934-1 MS	MW-1	105	93
880-9934-2	MW-2	98	93
LCS 860-36842/2-A	Lab Control Sample	105	92
LCSD 860-36842/3-A	Lab Control Sample Dup	109	98
MB 860-36842/1-A	Method Blank	95	87

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-36922/9

Matrix: Water

Analysis Batch: 36922

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			01/10/22 13:20	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/10/22 13:20	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/10/22 13:20	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/10/22 13:20	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/10/22 13:20	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/10/22 13:20	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/10/22 13:20	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/10/22 13:20	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/10/22 13:20	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/10/22 13:20	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/10/22 13:20	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/10/22 13:20	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/10/22 13:20	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/10/22 13:20	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/10/22 13:20	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/10/22 13:20	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/10/22 13:20	1
1,2-Dibromo-3-Chloropropane	0.002551	J	0.00500	0.000319 mg/L			01/10/22 13:20	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/10/22 13:20	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/10/22 13:20	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/10/22 13:20	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/10/22 13:20	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/10/22 13:20	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/10/22 13:20	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/10/22 13:20	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/10/22 13:20	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/10/22 13:20	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/10/22 13:20	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/10/22 13:20	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/10/22 13:20	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/10/22 13:20	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 13:20	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			01/10/22 13:20	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/10/22 13:20	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/10/22 13:20	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/10/22 13:20	1
Naphthalene	0.002558	J	0.0100	0.00200 mg/L			01/10/22 13:20	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/10/22 13:20	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/10/22 13:20	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/10/22 13:20	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/10/22 13:20	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/10/22 13:20	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/10/22 13:20	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/10/22 13:20	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/10/22 13:20	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/10/22 13:20	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/10/22 13:20	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/10/22 13:20	1

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QC Sample Results

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-36922/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 36922

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			01/10/22 13:20	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/10/22 13:20	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 13:20	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/10/22 13:20	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/10/22 13:20	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/10/22 13:20	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/10/22 13:20	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/10/22 13:20	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/10/22 13:20	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/10/22 13:20	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/10/22 13:20	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/10/22 13:20	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/10/22 13:20	1
Total BTEX	<0.00100	U	0.0100	0.00100 mg/L			01/10/22 13:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		01/10/22 13:20	1
Dibromofluoromethane (Surr)	100		75 - 131		01/10/22 13:20	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		01/10/22 13:20	1
Toluene-d8 (Surr)	99		80 - 117		01/10/22 13:20	1

Lab Sample ID: LCS 860-36922/28

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 36922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05563		mg/L		111	66 - 142
Bromobenzene	0.0500	0.05253		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05670		mg/L		113	60 - 140
Bromodichloromethane	0.0500	0.05637		mg/L		113	75 - 125
Bromoform	0.0500	0.05346		mg/L		107	75 - 125
Bromomethane	0.0500	0.04097		mg/L		82	60 - 140
2-Butanone	0.250	0.2525		mg/L		101	60 - 140
Carbon tetrachloride	0.0500	0.05694		mg/L		114	62 - 125
Chlorobenzene	0.0500	0.05343		mg/L		107	60 - 133
Chloroethane	0.0500	0.04924		mg/L		98	60 - 140
Chloroform	0.0500	0.05748		mg/L		115	70 - 130
Chloromethane	0.0500	0.04657		mg/L		93	60 - 140
2-Chlorotoluene	0.0500	0.05360		mg/L		107	73 - 125
4-Chlorotoluene	0.0500	0.05292		mg/L		106	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05756		mg/L		115	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05538		mg/L		111	74 - 125
Dibromochloromethane	0.0500	0.05401		mg/L		108	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04541		mg/L		91	59 - 125
1,2-Dibromoethane	0.0500	0.05311		mg/L		106	73 - 125
1,2-Dichlorobenzene	0.0500	0.05137		mg/L		103	75 - 125
1,3-Dichlorobenzene	0.0500	0.05224		mg/L		104	75 - 125
1,4-Dichlorobenzene	0.0500	0.04996		mg/L		100	75 - 125

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-36922/28

Matrix: Water

Analysis Batch: 36922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.04719		mg/L		94	70 - 130
1,1-Dichloroethane	0.0500	0.05795		mg/L		116	72 - 125
1,2-Dichloroethane	0.0500	0.05371		mg/L		107	68 - 127
1,1-Dichloroethene	0.0500	0.05866		mg/L		117	59 - 172
1,2-Dichloropropane	0.0500	0.05673		mg/L		113	74 - 125
1,3-Dichloropropane	0.0500	0.05366		mg/L		107	75 - 125
2,2-Dichloropropane	0.0500	0.06259		mg/L		125	75 - 125
1,1-Dichloropropene	0.0500	0.05814		mg/L		116	75 - 125
Ethylbenzene	0.0500	0.05522		mg/L		110	75 - 125
Hexachlorobutadiene	0.0500	0.04988		mg/L		100	75 - 125
Isopropylbenzene	0.0500	0.05514		mg/L		110	75 - 125
Methylene Chloride	0.0500	0.05516		mg/L		110	75 - 125
m,p-Xylenes	0.0500	0.05501		mg/L		110	75 - 125
MTBE	0.0500	0.05580		mg/L		112	65 - 135
Naphthalene	0.0500	0.04233		mg/L		85	70 - 130
n-Butylbenzene	0.0500	0.05256		mg/L		105	75 - 125
N-Propylbenzene	0.0500	0.05403		mg/L		108	75 - 125
o-Xylene	0.0500	0.05488		mg/L		110	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05304		mg/L		106	75 - 125
sec-Butylbenzene	0.0500	0.05386		mg/L		108	75 - 125
Styrene	0.0500	0.05447		mg/L		109	75 - 125
tert-Butylbenzene	0.0500	0.05376		mg/L		108	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05557		mg/L		111	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05102		mg/L		102	74 - 125
Tetrachloroethene	0.0500	0.05594		mg/L		112	71 - 125
Toluene	0.0500	0.05425		mg/L		108	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05670		mg/L		113	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05387		mg/L		108	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04385		mg/L		88	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04733		mg/L		95	75 - 135
1,1,1-Trichloroethane	0.0500	0.05848		mg/L		117	75 - 125
1,1,2-Trichloroethane	0.0500	0.05375		mg/L		107	75 - 127
Trichloroethene	0.0500	0.05717		mg/L		114	62 - 137
Trichlorofluoromethane	0.0500	0.05023		mg/L		100	60 - 140
1,2,3-Trichloropropane	0.0500	0.05107		mg/L		102	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05286		mg/L		106	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05345		mg/L		107	60 - 140
Vinyl chloride	0.0500	0.04765		mg/L		95	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	102		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: 880-9934-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-36922/4

Matrix: Water

Analysis Batch: 36922

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	0.05329		mg/L		107	66 - 142	4	25
Bromobenzene	0.0500	0.05172		mg/L		103	75 - 125	2	25
Bromochloromethane	0.0500	0.05397		mg/L		108	60 - 140	5	25
Bromodichloromethane	0.0500	0.05468		mg/L		109	75 - 125	3	25
Bromoform	0.0500	0.05568		mg/L		111	75 - 125	4	25
Bromomethane	0.0500	0.03939		mg/L		79	60 - 140	4	25
2-Butanone	0.250	0.2600		mg/L		104	60 - 140	3	25
Carbon tetrachloride	0.0500	0.05400		mg/L		108	62 - 125	5	25
Chlorobenzene	0.0500	0.05227		mg/L		105	60 - 133	2	25
Chloroethane	0.0500	0.04620		mg/L		92	60 - 140	6	25
Chloroform	0.0500	0.05448		mg/L		109	70 - 130	5	25
Chloromethane	0.0500	0.04440		mg/L		89	60 - 140	5	25
2-Chlorotoluene	0.0500	0.05105		mg/L		102	73 - 125	5	25
4-Chlorotoluene	0.0500	0.05112		mg/L		102	74 - 125	3	25
cis-1,2-Dichloroethene	0.0500	0.05418		mg/L		108	75 - 125	6	25
cis-1,3-Dichloropropene	0.0500	0.05350		mg/L		107	74 - 125	3	25
Dibromochloromethane	0.0500	0.05409		mg/L		108	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05154		mg/L		103	59 - 125	13	25
1,2-Dibromoethane	0.0500	0.05379		mg/L		108	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05076		mg/L		102	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.05083		mg/L		102	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.04916		mg/L		98	75 - 125	2	25
Dichlorodifluoromethane	0.0500	0.04309		mg/L		86	70 - 130	9	25
1,1-Dichloroethane	0.0500	0.05529		mg/L		111	72 - 125	5	25
1,2-Dichloroethane	0.0500	0.05302		mg/L		106	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.05387		mg/L		108	59 - 172	9	25
1,2-Dichloropropane	0.0500	0.05489		mg/L		110	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.05313		mg/L		106	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05939		mg/L		119	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.05460		mg/L		109	75 - 125	6	25
Ethylbenzene	0.0500	0.05315		mg/L		106	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05178		mg/L		104	75 - 125	4	25
Isopropylbenzene	0.0500	0.05366		mg/L		107	75 - 125	3	25
Methylene Chloride	0.0500	0.05154		mg/L		103	75 - 125	7	25
m,p-Xylenes	0.0500	0.05294		mg/L		106	75 - 125	4	25
MTBE	0.0500	0.05497		mg/L		110	65 - 135	1	25
Naphthalene	0.0500	0.05544	*1	mg/L		111	70 - 130	27	25
n-Butylbenzene	0.0500	0.05160		mg/L		103	75 - 125	2	25
N-Propylbenzene	0.0500	0.05154		mg/L		103	75 - 125	5	25
o-Xylene	0.0500	0.05361		mg/L		107	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05110		mg/L		102	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05164		mg/L		103	75 - 125	4	25
Styrene	0.0500	0.05346		mg/L		107	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05125		mg/L		102	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.05486		mg/L		110	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05159		mg/L		103	74 - 125	1	25
Tetrachloroethene	0.0500	0.05394		mg/L		108	71 - 125	4	25
Toluene	0.0500	0.05296		mg/L		106	59 - 139	2	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-36922/4

Matrix: Water

Analysis Batch: 36922

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	0.05391		mg/L		108	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.05405		mg/L		108	66 - 125	0	25
1,2,3-Trichlorobenzene	0.0500	0.05504		mg/L		110	75 - 137	23	25
1,2,4-Trichlorobenzene	0.0500	0.05402		mg/L		108	75 - 135	13	25
1,1,1-Trichloroethane	0.0500	0.05497		mg/L		110	75 - 125	6	25
1,1,2-Trichloroethane	0.0500	0.05382		mg/L		108	75 - 127	0	25
Trichloroethene	0.0500	0.05395		mg/L		108	62 - 137	6	25
Trichlorofluoromethane	0.0500	0.04629		mg/L		93	60 - 140	8	25
1,2,3-Trichloropropane	0.0500	0.05316		mg/L		106	75 - 125	4	25
1,2,4-Trimethylbenzene	0.0500	0.05083		mg/L		102	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.05090		mg/L		102	60 - 140	5	25
Vinyl chloride	0.0500	0.04445		mg/L		89	60 - 140	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	101		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 860-36842/1-A

Matrix: Water

Analysis Batch: 36763

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36842

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		01/07/22 15:15	01/07/22 16:47	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		01/07/22 15:15	01/07/22 16:47	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		01/07/22 15:15	01/07/22 16:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	01/07/22 15:15	01/07/22 16:47	1
o-Terphenyl	87		70 - 135	01/07/22 15:15	01/07/22 16:47	1

Lab Sample ID: LCS 860-36842/2-A

Matrix: Water

Analysis Batch: 36763

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	99.5	86.31		mg/L		87	70 - 135
Diesel Range Organics (Over C10-C28)	99.8	88.61		mg/L		89	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 135
o-Terphenyl	92		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-36842/3-A

Matrix: Water

Analysis Batch: 36763

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36842

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.5	92.96		mg/L		93	70 - 135	7	35
Diesel Range Organics (Over C10-C28)	99.8	96.57		mg/L		97	70 - 135	9	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	109		70 - 135						
o-Terphenyl	98		70 - 135						

Lab Sample ID: 880-9934-1 MS

Matrix: Water

Analysis Batch: 36763

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Batch: 36842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<0.932	U	93.9	83.31		mg/L		89	70 - 135
Diesel Range Organics (Over C10-C28)	<0.932	U	94.2	87.10		mg/L		92	70 - 135
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	105		70 - 135						
o-Terphenyl	93		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-36780/140

Matrix: Water

Analysis Batch: 36780

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			01/07/22 16:39	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/07/22 16:39	1
Sulfate	<0.109	U	0.500	0.109 mg/L			01/07/22 16:39	1

Lab Sample ID: MB 860-36780/152

Matrix: Water

Analysis Batch: 36780

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			01/07/22 21:29	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/07/22 21:29	1
Sulfate	<0.109	U	0.500	0.109 mg/L			01/07/22 21:29	1

Lab Sample ID: LCS 860-36780/141

Matrix: Water

Analysis Batch: 36780

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.20		mg/L		102	90 - 110
Fluoride	10.0	10.23		mg/L		102	90 - 110

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QC Sample Results

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-36780/141

Matrix: Water

Analysis Batch: 36780

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.08		mg/L		101	90 - 110

Lab Sample ID: LCS 860-36780/153

Matrix: Water

Analysis Batch: 36780

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.15		mg/L		101	90 - 110
Fluoride	10.0	10.24		mg/L		102	90 - 110
Sulfate	10.0	9.936		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-36780/142

Matrix: Water

Analysis Batch: 36780

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.25		mg/L		102	90 - 110	0	20
Fluoride	10.0	10.24		mg/L		102	90 - 110	0	20
Sulfate	10.0	10.09		mg/L		101	90 - 110	0	20

Lab Sample ID: LCSD 860-36780/154

Matrix: Water

Analysis Batch: 36780

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.20		mg/L		102	90 - 110	0	20
Fluoride	10.0	10.19		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.966		mg/L		100	90 - 110	0	20

Lab Sample ID: MB 860-36781/140

Matrix: Water

Analysis Batch: 36781

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			01/07/22 16:39	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/07/22 16:39	1

Lab Sample ID: MB 860-36781/152

Matrix: Water

Analysis Batch: 36781

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			01/07/22 21:29	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/07/22 21:29	1

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QC Sample Results

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-36781/141

Matrix: Water

Analysis Batch: 36781

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	9.945		mg/L		99	80 - 120
Nitrite as N	5.00	4.777		mg/L		96	80 - 120

Lab Sample ID: LCS 860-36781/153

Matrix: Water

Analysis Batch: 36781

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	9.894		mg/L		99	80 - 120
Nitrite as N	5.00	4.736		mg/L		95	80 - 120

Lab Sample ID: LCSD 860-36781/142

Matrix: Water

Analysis Batch: 36781

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	9.955		mg/L		100	80 - 120	0	20
Nitrite as N	5.00	4.765		mg/L		95	80 - 120	0	20

Lab Sample ID: LCSD 860-36781/154

Matrix: Water

Analysis Batch: 36781

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	9.923		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	4.733		mg/L		95	80 - 120	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-37250/4

Matrix: Water

Analysis Batch: 37250

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			01/11/22 13:55	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/11/22 13:55	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/11/22 13:55	1

Lab Sample ID: LCS 860-37250/5

Matrix: Water

Analysis Batch: 37250

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	273.5		mg/L		109	85 - 115

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QC Sample Results

Client: Ensolum

Job ID: 880-9934-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-37250/6

Matrix: Water

Analysis Batch: 37250

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	277.9		mg/L		111	85 - 115	2	20

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-9934-1 DU

Matrix: Water

Analysis Batch: 36974

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.0	HF	7.0		SU		0.1	20
Temperature	18.0	HF	18.1		Celsius		0.6	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-37315/3

Matrix: Water

Analysis Batch: 37315

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			01/07/22 14:50	1

Lab Sample ID: LCS 860-37315/4

Matrix: Water

Analysis Batch: 37315

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	0.900	0.8894	J	mg/L		99	80 - 120

Lab Sample ID: LCSD 860-37315/5

Matrix: Water

Analysis Batch: 37315

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	0.900	0.8923	J	mg/L		99	80 - 120	0	20

Eurofins Midland

QC Association Summary

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

Job ID: 880-9934-1

GC/MS VOA

Analysis Batch: 36922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9934-1	MW-1	Total/NA	Water	8260C	
880-9934-2	MW-2	Total/NA	Water	8260C	
880-9934-2	MW-2	Total/NA	Water	8260C	
MB 860-36922/9	Method Blank	Total/NA	Water	8260C	
LCS 860-36922/28	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-36922/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 35920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9934-1	MW-1	Total/NA	Water	8015 NM	
880-9934-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 36763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9934-1	MW-1	Total/NA	Water	8015B NM	36842
880-9934-2	MW-2	Total/NA	Water	8015B NM	36842
MB 860-36842/1-A	Method Blank	Total/NA	Water	8015B NM	36842
LCS 860-36842/2-A	Lab Control Sample	Total/NA	Water	8015B NM	36842
LCSD 860-36842/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	36842
880-9934-1 MS	MW-1	Total/NA	Water	8015B NM	36842

Prep Batch: 36842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9934-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-9934-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-36842/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-36842/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-36842/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-9934-1 MS	MW-1	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 36780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9934-1	MW-1	Total/NA	Water	300.0	
880-9934-2	MW-2	Total/NA	Water	300.0	
MB 860-36780/140	Method Blank	Total/NA	Water	300.0	
MB 860-36780/152	Method Blank	Total/NA	Water	300.0	
LCS 860-36780/141	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-36780/153	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-36780/142	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-36780/154	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 36781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9934-1	MW-1	Total/NA	Water	300.0	
880-9934-2	MW-2	Total/NA	Water	300.0	
MB 860-36781/140	Method Blank	Total/NA	Water	300.0	
MB 860-36781/152	Method Blank	Total/NA	Water	300.0	
LCS 860-36781/141	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-9934-1

HPLC/IC (Continued)

Analysis Batch: 36781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-36781/153	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-36781/142	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-36781/154	Lab Control Sample Dup	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 36974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9934-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-9934-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-9934-1 DU	MW-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 37250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9934-1	MW-1	Total/NA	Water	SM 2320B	
880-9934-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-37250/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-37250/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-37250/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 37259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9934-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-9934-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 37315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9934-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-9934-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-37315/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-37315/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-37315/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	

Lab Chronicle

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

Job ID: 880-9934-1

Client Sample ID: MW-1
Date Collected: 01/06/22 08:50
Date Received: 01/06/22 16:02

Lab Sample ID: 880-9934-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	36922	01/10/22 14:01	EM	XEN STF
Total/NA	Analysis	8015 NM		1	35920	01/04/22 10:13	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			36842	01/07/22 15:15	IS	XEN STF
Total/NA	Analysis	8015B NM		1	36763	01/07/22 17:49	T1S	XEN STF
Total/NA	Analysis	300.0		1	36780	01/07/22 22:32	ANP	XEN STF
Total/NA	Analysis	300.0		1	36781	01/07/22 22:32	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	37250	01/11/22 14:47	YGG	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	37259	01/12/22 10:18	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	36974	01/10/22 13:44	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	37315	01/07/22 14:50	AA	XEN STF

Client Sample ID: MW-2
Date Collected: 01/06/22 11:20
Date Received: 01/06/22 16:02

Lab Sample ID: 880-9934-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	36922	01/10/22 14:22	EM	XEN STF
Total/NA	Analysis	8260C		5	36922	01/10/22 14:45	EM	XEN STF
Total/NA	Analysis	8015 NM		1	35920	01/04/22 10:13	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			36842	01/07/22 15:15	IS	XEN STF
Total/NA	Analysis	8015B NM		1	36763	01/07/22 18:31	T1S	XEN STF
Total/NA	Analysis	300.0		1	36780	01/08/22 00:38	ANP	XEN STF
Total/NA	Analysis	300.0		1	36781	01/08/22 00:38	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	37250	01/11/22 15:03	YGG	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	37259	01/12/22 10:18	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	36974	01/10/22 13:44	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	37315	01/07/22 14:50	AA	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: 880-9934-1

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)
8260C		Water	Total BTEX
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: 880-9934-1

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: 880-9934-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-9934-1	MW-1	Water	01/06/22 08:50	01/06/22 16:02
880-9934-2	MW-2	Water	01/06/22 11:20	01/06/22 16:02

- 1
- 2
- 3
- 4
- 5
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- 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) 565-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa, FL (813) 281-1111
Hobbs, NM (575-392-7550)

Chain of Custody

Work Order No: 9930

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 ☒ ~~RRP~~ ☐ Superfund ☐	
State of Project: <i>New Mexico</i>	
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:	Aaron Marquez	Due Date							
			500 CO2 c						
			76.2						
			00						

SAMPLE RECEIPT		Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☒ No ☐
Temperature (°C):	9/10 Thermometer ID				
Received intact:	Yes ☒ No ☐ IPR				
Cooler Custody Seals:	Yes ☐ No ☒ N/A Correction Factor: 10				
Sample Custody Seals:	Yes ☐ No ☒ N/A Total Containers:				

Number of Containers

Red Carbon Dioxide 4

Red Sulfide SW-846 #37

W-846 #8260

A Method #8015

EPA Method #846 3

SW-846 Method 150.1

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

[illegible]

CUSTODY SEAL



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

Signature:

Date: 1-6-22

880-9934 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 		1-10-22 16:00	2				
3			4				
5			6				

Revised Date 05/11/18 Rev. 2012

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-9934-1

Login Number: 9934

List Source: Eurofins Midland

List Number: 1

Creator: Teel, Brianna

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: 880-9934-1

Login Number: 9934

List Source: Eurofins Houston

List Number: 2

List Creation: 01/07/22 02:31 PM

Creator: Milone, Jeancarlo

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: 880-10165-1

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:
1/17/2022 9:34:53 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.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: 880-10165-1

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Definitions/Glossary

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

Job ID: 880-10165-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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)

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-10165-1

Glossary (Continued)

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

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

Case Narrative

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

Job ID: 880-10165-1

Job ID: 880-10165-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-10165-1****Receipt**

The samples were received on 1/12/2022 5:04 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 4.2°C

GC/MS VOA

Method 8260C: Due to the high concentration of; Isopropylbenzene, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-37540 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-37540 recovered outside control limits for the following analytes; Dichloro difluoromethane. 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 / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 860-37540 were outside control limits: (860-18884-E-4 MS) and (860-18884-C-4 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-37739 recovered outside control limits for the following analytes: Dichloro difluoromethane. 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 / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-37739 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.

GC Semi VOA

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

HPLC/IC

Method 300_ORGFMS: The following samples were received outside of holding time: MW-1 (880-10165-1) and MW-2 (880-10165-2).

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-10165-1

Date Collected: 01/12/22 10:20

Matrix: Water

Date Received: 01/12/22 17:04

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			01/14/22 18:12	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/14/22 18:12	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/14/22 18:12	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/14/22 18:12	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/14/22 18:12	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/14/22 18:12	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/14/22 18:12	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/14/22 18:12	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/14/22 18:12	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/14/22 18:12	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/14/22 18:12	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/14/22 18:12	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/14/22 18:12	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/14/22 18:12	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/14/22 18:12	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/14/22 18:12	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/14/22 18:12	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/14/22 18:12	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/14/22 18:12	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/14/22 18:12	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/14/22 18:12	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/14/22 18:12	1
Dichlorodifluoromethane	<0.000316	U **	0.00100	0.000316 mg/L			01/14/22 18:12	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/14/22 18:12	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/14/22 18:12	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/14/22 18:12	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/14/22 18:12	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/14/22 18:12	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/14/22 18:12	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/14/22 18:12	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/14/22 18:12	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 18:12	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			01/17/22 14:54	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/14/22 18:12	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/14/22 18:12	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/14/22 18:12	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/14/22 18:12	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/14/22 18:12	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/14/22 18:12	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/14/22 18:12	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/14/22 18:12	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/14/22 18:12	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/14/22 18:12	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/14/22 18:12	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/14/22 18:12	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/14/22 18:12	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/14/22 18:12	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/14/22 18:12	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			01/14/22 18:12	1

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Client Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-10165-1

Date Collected: 01/12/22 10:20

Matrix: Water

Date Received: 01/12/22 17:04

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			01/14/22 18:12	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 18:12	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 18:12	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/14/22 18:12	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/14/22 18:12	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/14/22 18:12	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/14/22 18:12	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/14/22 18:12	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/14/22 18:12	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/14/22 18:12	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/14/22 18:12	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/14/22 18:12	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			01/14/22 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		74 - 124		01/14/22 18:12	1
4-Bromofluorobenzene (Surr)	111		74 - 124		01/17/22 14:54	1
Dibromofluoromethane (Surr)	105		75 - 131		01/14/22 18:12	1
Dibromofluoromethane (Surr)	106		75 - 131		01/17/22 14:54	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		01/14/22 18:12	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		01/17/22 14:54	1
Toluene-d8 (Surr)	101		80 - 117		01/14/22 18:12	1
Toluene-d8 (Surr)	100		80 - 117		01/17/22 14:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2.02	J	4.72	0.932 mg/L			01/17/22 10:56	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	0.960	J	4.72	0.932 mg/L		01/17/22 10:47	01/17/22 13:54	1
Diesel Range Organics (Over C10-C28)	1.06	J	4.72	0.932 mg/L		01/17/22 10:47	01/17/22 13:54	1
Oil Range Organics (Over C28-C36)	<0.900	U	4.72	0.900 mg/L		01/17/22 10:47	01/17/22 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 135	01/17/22 10:47	01/17/22 13:54	1
o-Terphenyl	111		70 - 135	01/17/22 10:47	01/17/22 13:54	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		0.500	0.200 mg/L			01/14/22 19:37	1
Nitrate as N	0.154	H	0.100	0.0391 mg/L			01/14/22 19:37	1
Fluoride	0.491	J	0.500	0.100 mg/L			01/14/22 19:37	1
Nitrite as N	0.0428	J H	0.100	0.0293 mg/L			01/14/22 19:37	1
Sulfate	42.1		0.500	0.109 mg/L			01/14/22 19:37	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	326		4.00	4.00 mg/L			01/14/22 16:44	1

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Client Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-10165-1

Date Collected: 01/12/22 10:20

Matrix: Water

Date Received: 01/12/22 17:04

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	326		4.00	4.00 mg/L			01/14/22 16:44	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/14/22 16:44	1
Carbon dioxide	417			mg/L			01/17/22 14:17	1
Carbon Dioxide, Free	130			mg/L			01/17/22 14:17	1
pH	6.7	HF		SU			01/14/22 16:01	1
Temperature	21.7	HF		Celsius			01/14/22 16:01	1
Sulfide	<0.495	U	5.00	0.495 mg/L			01/14/22 15:37	1

Client Sample ID: MW-2

Lab Sample ID: 880-10165-2

Date Collected: 01/12/22 13:10

Matrix: Water

Date Received: 01/12/22 17:04

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0205		0.00100	0.000214 mg/L			01/14/22 18:31	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/14/22 18:31	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/14/22 18:31	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/14/22 18:31	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/14/22 18:31	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/14/22 18:31	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/14/22 18:31	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/14/22 18:31	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/14/22 18:31	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/14/22 18:31	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/14/22 18:31	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/14/22 18:31	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/14/22 18:31	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/14/22 18:31	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/14/22 18:31	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/14/22 18:31	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/14/22 18:31	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/14/22 18:31	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/14/22 18:31	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/14/22 18:31	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/14/22 18:31	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/14/22 18:31	1
Dichlorodifluoromethane	<0.000316	U *	0.00100	0.000316 mg/L			01/14/22 18:31	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/14/22 18:31	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/14/22 18:31	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/14/22 18:31	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/14/22 18:31	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/14/22 18:31	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/14/22 18:31	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/14/22 18:31	1
Ethylbenzene	0.00106		0.00100	0.000515 mg/L			01/14/22 18:31	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 18:31	1
Isopropylbenzene	0.00521		0.00100	0.000161 mg/L			01/17/22 14:35	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/14/22 18:31	1
m,p-Xylenes	0.0949		0.0100	0.000330 mg/L			01/14/22 18:31	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/14/22 18:31	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-10165-2

Date Collected: 01/12/22 13:10

Matrix: Water

Date Received: 01/12/22 17:04

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/14/22 18:31	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/14/22 18:31	1
N-Propylbenzene	0.000546	J	0.00100	0.000179 mg/L			01/14/22 18:31	1
o-Xylene	0.0200		0.00100	0.000192 mg/L			01/14/22 18:31	1
p-Cymene (p-Isopropyltoluene)	0.00184		0.00100	0.000233 mg/L			01/14/22 18:31	1
sec-Butylbenzene	0.00132		0.00100	0.000199 mg/L			01/14/22 18:31	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/14/22 18:31	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/14/22 18:31	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/14/22 18:31	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/14/22 18:31	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/14/22 18:31	1
Toluene	0.00174		0.00100	0.000500 mg/L			01/14/22 18:31	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			01/14/22 18:31	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/14/22 18:31	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 18:31	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 18:31	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/14/22 18:31	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/14/22 18:31	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/14/22 18:31	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/14/22 18:31	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/14/22 18:31	1
1,2,4-Trimethylbenzene	0.0619		0.00100	0.000252 mg/L			01/14/22 18:31	1
1,3,5-Trimethylbenzene	0.00491		0.00100	0.000279 mg/L			01/14/22 18:31	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/14/22 18:31	1
Xylenes, Total	0.115		0.0100	0.000330 mg/L			01/14/22 18:31	1
Total BTEX	0.138		0.0100	0.000214 mg/L			01/14/22 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		74 - 124		01/14/22 18:31	1
4-Bromofluorobenzene (Surr)	107		74 - 124		01/17/22 14:35	1
Dibromofluoromethane (Surr)	104		75 - 131		01/14/22 18:31	1
Dibromofluoromethane (Surr)	104		75 - 131		01/17/22 14:35	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		01/14/22 18:31	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		01/17/22 14:35	1
Toluene-d8 (Surr)	101		80 - 117		01/14/22 18:31	1
Toluene-d8 (Surr)	100		80 - 117		01/17/22 14:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4.97	J	5.24	1.04 mg/L			01/17/22 10:56	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	3.63	J	5.24	1.04 mg/L		01/17/22 10:47	01/17/22 14:34	1
Diesel Range Organics (Over C10-C28)	1.34	J	5.24	1.04 mg/L		01/17/22 10:47	01/17/22 14:34	1
Oil Range Organics (Over C28-C36)	<1.00	U	5.24	1.00 mg/L		01/17/22 10:47	01/17/22 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135	01/17/22 10:47	01/17/22 14:34	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-10165-1

Client Sample ID: MW-2

Lab Sample ID: 880-10165-2

Date Collected: 01/12/22 13:10

Matrix: Water

Date Received: 01/12/22 17:04

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		70 - 135	01/17/22 10:47	01/17/22 14:34	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.9		0.500	0.200 mg/L			01/14/22 20:02	1
Nitrate as N	0.506	H	0.100	0.0391 mg/L			01/14/22 20:02	1
Fluoride	0.288	J	0.500	0.100 mg/L			01/14/22 20:02	1
Nitrite as N	1.47	H	0.100	0.0293 mg/L			01/14/22 20:02	1
Sulfate	92.2		0.500	0.109 mg/L			01/14/22 20:02	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1150		4.00	4.00 mg/L			01/14/22 17:00	1
Bicarbonate Alkalinity as CaCO3	1150		4.00	4.00 mg/L			01/14/22 17:00	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/14/22 17:00	1
Carbon dioxide	2470			mg/L			01/17/22 14:17	1
Carbon Dioxide, Free	1450			mg/L			01/17/22 14:17	1
pH	6.2	HF		SU			01/14/22 16:01	1
Temperature	22.0	HF		Celsius			01/14/22 16:01	1
Sulfide	<0.495	U	5.00	0.495 mg/L			01/14/22 15:37	1

Surrogate Summary

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

Job ID: 880-10165-1

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)
860-18884-C-4 MSD	Matrix Spike Duplicate	109	107	104	97
860-18884-E-4 MS	Matrix Spike	111	106	102	99
880-10164-G-1 MS	Matrix Spike	109	107	103	99
880-10165-1	MW-1	111	105	105	101
880-10165-1	MW-1	111	106	105	100
880-10165-2	MW-2	110	104	105	101
880-10165-2	MW-2	107	104	104	100
LCS 860-37540/3	Lab Control Sample	105	106	102	97
LCS 860-37739/3	Lab Control Sample	107	106	102	98
LCSD 860-37540/4	Lab Control Sample Dup	105	106	103	97
LCSD 860-37739/4	Lab Control Sample Dup	108	105	102	98
MB 860-37540/9	Method Blank	110	105	103	99
MB 860-37739/10	Method Blank	111	105	104	101
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-10165-1	MW-1	119	111
880-10165-1 MS - RA	MW-1	101	97
880-10165-2	MW-2	97	90
LCS 860-37748/2-A - RA	Lab Control Sample	98	93
LCSD 860-37748/3-A - RA	Lab Control Sample Dup	87	82
MB 860-37748/1-A	Method Blank	106	100
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-37540/9

Matrix: Water

Analysis Batch: 37540

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			01/14/22 13:01	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/14/22 13:01	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/14/22 13:01	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/14/22 13:01	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/14/22 13:01	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/14/22 13:01	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/14/22 13:01	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/14/22 13:01	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/14/22 13:01	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/14/22 13:01	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/14/22 13:01	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/14/22 13:01	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/14/22 13:01	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/14/22 13:01	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/14/22 13:01	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/14/22 13:01	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/14/22 13:01	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/14/22 13:01	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/14/22 13:01	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/14/22 13:01	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/14/22 13:01	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/14/22 13:01	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/14/22 13:01	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/14/22 13:01	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/14/22 13:01	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/14/22 13:01	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/14/22 13:01	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/14/22 13:01	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/14/22 13:01	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/14/22 13:01	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/14/22 13:01	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 13:01	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/14/22 13:01	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/14/22 13:01	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/14/22 13:01	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/14/22 13:01	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/14/22 13:01	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/14/22 13:01	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/14/22 13:01	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/14/22 13:01	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/14/22 13:01	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/14/22 13:01	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/14/22 13:01	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/14/22 13:01	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/14/22 13:01	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/14/22 13:01	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/14/22 13:01	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			01/14/22 13:01	1

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QC Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-37540/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 37540

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/14/22 13:01	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 13:01	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/14/22 13:01	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/14/22 13:01	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/14/22 13:01	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/14/22 13:01	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/14/22 13:01	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/14/22 13:01	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/14/22 13:01	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/14/22 13:01	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/14/22 13:01	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/14/22 13:01	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			01/14/22 13:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		74 - 124		01/14/22 13:01	1
Dibromofluoromethane (Surr)	105		75 - 131		01/14/22 13:01	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		01/14/22 13:01	1
Toluene-d8 (Surr)	99		80 - 117		01/14/22 13:01	1

Lab Sample ID: LCS 860-37540/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 37540

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04968		mg/L		99	66 - 142
Bromobenzene	0.0500	0.04455		mg/L		89	75 - 125
Bromochloromethane	0.0500	0.05084		mg/L		102	60 - 140
Bromodichloromethane	0.0500	0.05140		mg/L		103	75 - 125
Bromoform	0.0500	0.03875		mg/L		78	75 - 125
Bromomethane	0.0500	0.04673		mg/L		93	60 - 140
2-Butanone	0.250	0.2558		mg/L		102	60 - 140
Carbon tetrachloride	0.0500	0.05257		mg/L		105	62 - 125
Chlorobenzene	0.0500	0.04621		mg/L		92	60 - 133
Chloroethane	0.0500	0.04333		mg/L		87	60 - 140
Chloroform	0.0500	0.05359		mg/L		107	70 - 130
Chloromethane	0.0500	0.05387		mg/L		108	60 - 140
2-Chlorotoluene	0.0500	0.04574		mg/L		91	73 - 125
4-Chlorotoluene	0.0500	0.04628		mg/L		93	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05331		mg/L		107	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05186		mg/L		104	74 - 125
Dibromochloromethane	0.0500	0.04650		mg/L		93	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.03670		mg/L		73	59 - 125
1,2-Dibromoethane	0.0500	0.04590		mg/L		92	73 - 125
1,2-Dichlorobenzene	0.0500	0.04352		mg/L		87	75 - 125
1,3-Dichlorobenzene	0.0500	0.04494		mg/L		90	75 - 125
1,4-Dichlorobenzene	0.0500	0.04347		mg/L		87	75 - 125
Dichlorodifluoromethane	0.0500	0.06652	*+	mg/L		133	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-37540/3

Matrix: Water

Analysis Batch: 37540

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	0.05368		mg/L		107	72 - 125
1,2-Dichloroethane	0.0500	0.05085		mg/L		102	68 - 127
1,1-Dichloroethene	0.0500	0.05567		mg/L		111	59 - 172
1,2-Dichloropropane	0.0500	0.05000		mg/L		100	74 - 125
1,3-Dichloropropane	0.0500	0.04467		mg/L		89	75 - 125
2,2-Dichloropropane	0.0500	0.05645		mg/L		113	75 - 125
1,1-Dichloropropene	0.0500	0.05379		mg/L		108	75 - 125
Ethylbenzene	0.0500	0.04627		mg/L		93	75 - 125
Hexachlorobutadiene	0.0500	0.04258		mg/L		85	75 - 125
Isopropylbenzene	0.0500	0.04671		mg/L		93	75 - 125
Methylene Chloride	0.0500	0.05191		mg/L		104	75 - 125
m,p-Xylenes	0.0500	0.04714		mg/L		94	75 - 125
MTBE	0.0500	0.05044		mg/L		101	65 - 135
Naphthalene	0.0500	0.03968		mg/L		79	70 - 130
n-Butylbenzene	0.0500	0.04768		mg/L		95	75 - 125
N-Propylbenzene	0.0500	0.04641		mg/L		93	75 - 125
o-Xylene	0.0500	0.04744		mg/L		95	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04619		mg/L		92	75 - 125
sec-Butylbenzene	0.0500	0.04604		mg/L		92	75 - 125
Styrene	0.0500	0.04733		mg/L		95	75 - 125
tert-Butylbenzene	0.0500	0.04554		mg/L		91	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04723		mg/L		94	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04334		mg/L		87	74 - 125
Tetrachloroethene	0.0500	0.04504		mg/L		90	71 - 125
Toluene	0.0500	0.04562		mg/L		91	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05425		mg/L		109	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04864		mg/L		97	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.03880		mg/L		78	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04100		mg/L		82	75 - 135
1,1,1-Trichloroethane	0.0500	0.05422		mg/L		108	75 - 125
1,1,2-Trichloroethane	0.0500	0.04631		mg/L		93	75 - 127
Trichloroethene	0.0500	0.04925		mg/L		99	62 - 137
Trichlorofluoromethane	0.0500	0.04722		mg/L		94	60 - 140
1,2,3-Trichloropropane	0.0500	0.04395		mg/L		88	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04687		mg/L		94	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04585		mg/L		92	60 - 140
Vinyl chloride	0.0500	0.04744		mg/L		95	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		74 - 124
Dibromofluoromethane (Surr)	106		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	97		80 - 117

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QC Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-37540/4

Matrix: Water

Analysis Batch: 37540

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Benzene	0.0500	0.04653		mg/L		93	66 - 142	7	25
Bromobenzene	0.0500	0.04325		mg/L		86	75 - 125	3	25
Bromochloromethane	0.0500	0.04917		mg/L		98	60 - 140	3	25
Bromodichloromethane	0.0500	0.04846		mg/L		97	75 - 125	6	25
Bromoform	0.0500	0.04150		mg/L		83	75 - 125	7	25
Bromomethane	0.0500	0.04289		mg/L		86	60 - 140	9	25
2-Butanone	0.250	0.2939		mg/L		118	60 - 140	14	25
Carbon tetrachloride	0.0500	0.05010		mg/L		100	62 - 125	5	25
Chlorobenzene	0.0500	0.04492		mg/L		90	60 - 133	3	25
Chloroethane	0.0500	0.04063		mg/L		81	60 - 140	6	25
Chloroform	0.0500	0.05131		mg/L		103	70 - 130	4	25
Chloromethane	0.0500	0.05109		mg/L		102	60 - 140	5	25
2-Chlorotoluene	0.0500	0.04402		mg/L		88	73 - 125	4	25
4-Chlorotoluene	0.0500	0.04494		mg/L		90	74 - 125	3	25
cis-1,2-Dichloroethene	0.0500	0.05072		mg/L		101	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.04978		mg/L		100	74 - 125	4	25
Dibromochloromethane	0.0500	0.04781		mg/L		96	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04226		mg/L		85	59 - 125	14	25
1,2-Dibromoethane	0.0500	0.04675		mg/L		94	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04307		mg/L		86	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.04346		mg/L		87	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.04155		mg/L		83	75 - 125	5	25
Dichlorodifluoromethane	0.0500	0.06150		mg/L		123	70 - 130	8	25
1,1-Dichloroethane	0.0500	0.05096		mg/L		102	72 - 125	5	25
1,2-Dichloroethane	0.0500	0.04933		mg/L		99	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.05203		mg/L		104	59 - 172	7	25
1,2-Dichloropropane	0.0500	0.04668		mg/L		93	74 - 125	7	25
1,3-Dichloropropane	0.0500	0.04560		mg/L		91	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05307		mg/L		106	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.05079		mg/L		102	75 - 125	6	25
Ethylbenzene	0.0500	0.04485		mg/L		90	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.04404		mg/L		88	75 - 125	3	25
Isopropylbenzene	0.0500	0.04527		mg/L		91	75 - 125	3	25
Methylene Chloride	0.0500	0.05001		mg/L		100	75 - 125	4	25
m,p-Xylenes	0.0500	0.04544		mg/L		91	75 - 125	4	25
MTBE	0.0500	0.05129		mg/L		103	65 - 135	2	25
Naphthalene	0.0500	0.04538		mg/L		91	70 - 130	13	25
n-Butylbenzene	0.0500	0.04654		mg/L		93	75 - 125	2	25
N-Propylbenzene	0.0500	0.04453		mg/L		89	75 - 125	4	25
o-Xylene	0.0500	0.04581		mg/L		92	75 - 125	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04445		mg/L		89	75 - 125	4	25
sec-Butylbenzene	0.0500	0.04442		mg/L		89	75 - 125	4	25
Styrene	0.0500	0.04601		mg/L		92	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04385		mg/L		88	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.04582		mg/L		92	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.04604		mg/L		92	74 - 125	6	25
Tetrachloroethene	0.0500	0.04279		mg/L		86	71 - 125	5	25
Toluene	0.0500	0.04401		mg/L		88	59 - 139	4	25

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QC Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-37540/4

Matrix: Water

Analysis Batch: 37540

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	0.05109		mg/L		102	75 - 125	6	25
trans-1,3-Dichloropropene	0.0500	0.04915		mg/L		98	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.04106		mg/L		82	75 - 137	6	25
1,2,4-Trichlorobenzene	0.0500	0.04196		mg/L		84	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05093		mg/L		102	75 - 125	6	25
1,1,2-Trichloroethane	0.0500	0.04716		mg/L		94	75 - 127	2	25
Trichloroethene	0.0500	0.04608		mg/L		92	62 - 137	7	25
Trichlorofluoromethane	0.0500	0.04447		mg/L		89	60 - 140	6	25
1,2,3-Trichloropropane	0.0500	0.04781		mg/L		96	75 - 125	8	25
1,2,4-Trimethylbenzene	0.0500	0.04498		mg/L		90	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.04363		mg/L		87	60 - 140	5	25
Vinyl chloride	0.0500	0.04424		mg/L		88	60 - 140	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	105		74 - 124
Dibromofluoromethane (Surr)	106		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Lab Sample ID: MB 860-37739/10

Matrix: Water

Analysis Batch: 37739

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		01/17/22 13:53	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		01/17/22 13:53	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		01/17/22 13:53	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		01/17/22 13:53	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		01/17/22 13:53	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		01/17/22 13:53	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		01/17/22 13:53	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		01/17/22 13:53	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		01/17/22 13:53	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		01/17/22 13:53	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		01/17/22 13:53	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		01/17/22 13:53	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		01/17/22 13:53	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		01/17/22 13:53	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		01/17/22 13:53	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		01/17/22 13:53	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		01/17/22 13:53	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		01/17/22 13:53	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		01/17/22 13:53	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		01/17/22 13:53	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		01/17/22 13:53	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		01/17/22 13:53	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		01/17/22 13:53	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		01/17/22 13:53	1

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QC Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-37739/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 37739

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/17/22 13:53	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/17/22 13:53	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/17/22 13:53	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/17/22 13:53	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/17/22 13:53	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/17/22 13:53	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/17/22 13:53	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			01/17/22 13:53	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/17/22 13:53	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/17/22 13:53	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/17/22 13:53	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/17/22 13:53	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/17/22 13:53	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/17/22 13:53	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/17/22 13:53	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/17/22 13:53	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/17/22 13:53	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/17/22 13:53	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/17/22 13:53	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/17/22 13:53	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/17/22 13:53	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/17/22 13:53	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/17/22 13:53	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			01/17/22 13:53	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/17/22 13:53	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/17/22 13:53	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/17/22 13:53	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/17/22 13:53	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/17/22 13:53	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/17/22 13:53	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/17/22 13:53	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/17/22 13:53	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/17/22 13:53	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/17/22 13:53	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/17/22 13:53	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/17/22 13:53	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			01/17/22 13:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		74 - 124		01/17/22 13:53	1
Dibromofluoromethane (Surr)	105		75 - 131		01/17/22 13:53	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		01/17/22 13:53	1
Toluene-d8 (Surr)	101		80 - 117		01/17/22 13:53	1

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QC Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-37739/3

Matrix: Water

Analysis Batch: 37739

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	0.05101		mg/L		102	66 - 142
Bromobenzene	0.0500	0.04819		mg/L		96	75 - 125
Bromochloromethane	0.0500	0.05208		mg/L		104	60 - 140
Bromodichloromethane	0.0500	0.05200		mg/L		104	75 - 125
Bromoform	0.0500	0.04286		mg/L		86	75 - 125
Bromomethane	0.0500	0.04485		mg/L		90	60 - 140
2-Butanone	0.250	0.2759		mg/L		110	60 - 140
Carbon tetrachloride	0.0500	0.05516		mg/L		110	62 - 125
Chlorobenzene	0.0500	0.04779		mg/L		96	60 - 133
Chloroethane	0.0500	0.04399		mg/L		88	60 - 140
Chloroform	0.0500	0.05365		mg/L		107	70 - 130
Chloromethane	0.0500	0.05938		mg/L		119	60 - 140
2-Chlorotoluene	0.0500	0.04934		mg/L		99	73 - 125
4-Chlorotoluene	0.0500	0.04979		mg/L		100	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05434		mg/L		109	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05310		mg/L		106	74 - 125
Dibromochloromethane	0.0500	0.04925		mg/L		99	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04263		mg/L		85	59 - 125
1,2-Dibromoethane	0.0500	0.04813		mg/L		96	73 - 125
1,2-Dichlorobenzene	0.0500	0.04695		mg/L		94	75 - 125
1,3-Dichlorobenzene	0.0500	0.04811		mg/L		96	75 - 125
1,4-Dichlorobenzene	0.0500	0.04618		mg/L		92	75 - 125
Dichlorodifluoromethane	0.0500	0.06903	*+	mg/L		138	70 - 130
1,1-Dichloroethane	0.0500	0.05344		mg/L		107	72 - 125
1,2-Dichloroethane	0.0500	0.05175		mg/L		103	68 - 127
1,1-Dichloroethene	0.0500	0.05855		mg/L		117	59 - 172
1,2-Dichloropropane	0.0500	0.05036		mg/L		101	74 - 125
1,3-Dichloropropane	0.0500	0.04693		mg/L		94	75 - 125
2,2-Dichloropropane	0.0500	0.05737		mg/L		115	75 - 125
1,1-Dichloropropene	0.0500	0.05511		mg/L		110	75 - 125
Ethylbenzene	0.0500	0.04838		mg/L		97	75 - 125
Hexachlorobutadiene	0.0500	0.04638		mg/L		93	75 - 125
Isopropylbenzene	0.0500	0.04873		mg/L		97	75 - 125
Methylene Chloride	0.0500	0.05212		mg/L		104	75 - 125
m,p-Xylenes	0.0500	0.04933		mg/L		99	75 - 125
MTBE	0.0500	0.05165		mg/L		103	65 - 135
Naphthalene	0.0500	0.04535		mg/L		91	70 - 130
n-Butylbenzene	0.0500	0.05150		mg/L		103	75 - 125
N-Propylbenzene	0.0500	0.04984		mg/L		100	75 - 125
o-Xylene	0.0500	0.04921		mg/L		98	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04971		mg/L		99	75 - 125
sec-Butylbenzene	0.0500	0.04970		mg/L		99	75 - 125
Styrene	0.0500	0.04897		mg/L		98	75 - 125
tert-Butylbenzene	0.0500	0.04887		mg/L		98	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04893		mg/L		98	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04735		mg/L		95	74 - 125
Tetrachloroethene	0.0500	0.04798		mg/L		96	71 - 125
Toluene	0.0500	0.04791		mg/L		96	59 - 139

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QC Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-37739/3

Matrix: Water

Analysis Batch: 37739

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	0.0500	0.05629		mg/L		113	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05257		mg/L		105	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04339		mg/L		87	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04512		mg/L		90	75 - 135
1,1,1-Trichloroethane	0.0500	0.05435		mg/L		109	75 - 125
1,1,2-Trichloroethane	0.0500	0.04812		mg/L		96	75 - 127
Trichloroethene	0.0500	0.05042		mg/L		101	62 - 137
Trichlorofluoromethane	0.0500	0.04848		mg/L		97	60 - 140
1,2,3-Trichloropropane	0.0500	0.04991		mg/L		100	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04988		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04932		mg/L		99	60 - 140
Vinyl chloride	0.0500	0.04912		mg/L		98	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		74 - 124
Dibromofluoromethane (Surr)	106		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	98		80 - 117

Lab Sample ID: LCSD 860-37739/4

Matrix: Water

Analysis Batch: 37739

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	0.04763		mg/L		95	66 - 142	7	25
Bromobenzene	0.0500	0.04476		mg/L		90	75 - 125	7	25
Bromochloromethane	0.0500	0.04886		mg/L		98	60 - 140	6	25
Bromodichloromethane	0.0500	0.04901		mg/L		98	75 - 125	6	25
Bromoform	0.0500	0.03989		mg/L		80	75 - 125	7	25
Bromomethane	0.0500	0.04312		mg/L		86	60 - 140	4	25
2-Butanone	0.250	0.2523		mg/L		101	60 - 140	9	25
Carbon tetrachloride	0.0500	0.05140		mg/L		103	62 - 125	7	25
Chlorobenzene	0.0500	0.04515		mg/L		90	60 - 133	6	25
Chloroethane	0.0500	0.04101		mg/L		82	60 - 140	7	25
Chloroform	0.0500	0.05090		mg/L		102	70 - 130	5	25
Chloromethane	0.0500	0.05741		mg/L		115	60 - 140	3	25
2-Chlorotoluene	0.0500	0.04596		mg/L		92	73 - 125	7	25
4-Chlorotoluene	0.0500	0.04665		mg/L		93	74 - 125	6	25
cis-1,2-Dichloroethene	0.0500	0.05093		mg/L		102	75 - 125	6	25
cis-1,3-Dichloropropene	0.0500	0.05031		mg/L		101	74 - 125	5	25
Dibromochloromethane	0.0500	0.04643		mg/L		93	73 - 125	6	25
1,2-Dibromo-3-Chloropropane	0.0500	0.03885		mg/L		78	59 - 125	9	25
1,2-Dibromoethane	0.0500	0.04570		mg/L		91	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04407		mg/L		88	75 - 125	6	25
1,3-Dichlorobenzene	0.0500	0.04494		mg/L		90	75 - 125	7	25
1,4-Dichlorobenzene	0.0500	0.04340		mg/L		87	75 - 125	6	25
Dichlorodifluoromethane	0.0500	0.06282		mg/L		126	70 - 130	9	25
1,1-Dichloroethane	0.0500	0.05041		mg/L		101	72 - 125	6	25

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QC Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-37739/4					Client Sample ID: Lab Control Sample Dup						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 37739											
				Spike	LCSD	LCSD			%Rec.		RPD
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
1,2-Dichloroethane				0.0500	0.04920		mg/L		98	68 - 127	5
1,1-Dichloroethene				0.0500	0.05364		mg/L		107	59 - 172	9
1,2-Dichloropropane				0.0500	0.04778		mg/L		96	74 - 125	5
1,3-Dichloropropane				0.0500	0.04443		mg/L		89	75 - 125	5
2,2-Dichloropropane				0.0500	0.05332		mg/L		107	75 - 125	7
1,1-Dichloropropene				0.0500	0.05160		mg/L		103	75 - 125	7
Ethylbenzene				0.0500	0.04543		mg/L		91	75 - 125	6
Hexachlorobutadiene				0.0500	0.04276		mg/L		86	75 - 125	8
Isopropylbenzene				0.0500	0.04578		mg/L		92	75 - 125	6
Methylene Chloride				0.0500	0.04871		mg/L		97	75 - 125	7
m,p-Xylenes				0.0500	0.04616		mg/L		92	75 - 125	7
MTBE				0.0500	0.04870		mg/L		97	65 - 135	6
Naphthalene				0.0500	0.04178		mg/L		84	70 - 130	8
n-Butylbenzene				0.0500	0.04787		mg/L		96	75 - 125	7
N-Propylbenzene				0.0500	0.04630		mg/L		93	75 - 125	7
o-Xylene				0.0500	0.04628		mg/L		93	75 - 125	6
p-Cymene (p-Isopropyltoluene)				0.0500	0.04659		mg/L		93	75 - 125	6
sec-Butylbenzene				0.0500	0.04642		mg/L		93	75 - 125	7
Styrene				0.0500	0.04644		mg/L		93	75 - 125	5
tert-Butylbenzene				0.0500	0.04585		mg/L		92	75 - 125	6
1,1,1,2-Tetrachloroethane				0.0500	0.04608		mg/L		92	72 - 125	6
1,1,2,2-Tetrachloroethane				0.0500	0.04431		mg/L		89	74 - 125	7
Tetrachloroethene				0.0500	0.04479		mg/L		90	71 - 125	7
Toluene				0.0500	0.04477		mg/L		90	59 - 139	7
trans-1,2-Dichloroethene				0.0500	0.05235		mg/L		105	75 - 125	7
trans-1,3-Dichloropropene				0.0500	0.04956		mg/L		99	66 - 125	6
1,2,3-Trichlorobenzene				0.0500	0.04029		mg/L		81	75 - 137	7
1,2,4-Trichlorobenzene				0.0500	0.04197		mg/L		84	75 - 135	7
1,1,1-Trichloroethane				0.0500	0.05131		mg/L		103	75 - 125	6
1,1,2-Trichloroethane				0.0500	0.04556		mg/L		91	75 - 127	5
Trichloroethene				0.0500	0.04714		mg/L		94	62 - 137	7
Trichlorofluoromethane				0.0500	0.04378		mg/L		88	60 - 140	10
1,2,3-Trichloropropane				0.0500	0.04641		mg/L		93	75 - 125	7
1,2,4-Trimethylbenzene				0.0500	0.04651		mg/L		93	75 - 125	7
1,3,5-Trimethylbenzene				0.0500	0.04585		mg/L		92	60 - 140	7
Vinyl chloride				0.0500	0.04566		mg/L		91	60 - 140	7

QC Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-37748/1-A

Matrix: Water

Analysis Batch: 37712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37748

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		01/17/22 10:47	01/17/22 13:34	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		01/17/22 10:47	01/17/22 13:34	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		01/17/22 10:47	01/17/22 13:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 135			01/17/22 10:47	01/17/22 13:34	1
o-Terphenyl	100		70 - 135			01/17/22 10:47	01/17/22 13:34	1

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

Lab Sample ID: LCS 860-37748/2-A

Matrix: Water

Analysis Batch: 37712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	99.3	120.1		mg/L		121	70 - 135
Diesel Range Organics (Over C10-C28) - RA	99.6	87.74		mg/L		88	70 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane - RA	98		70 - 135				
o-Terphenyl - RA	93		70 - 135				

Lab Sample ID: LCSD 860-37748/3-A

Matrix: Water

Analysis Batch: 37712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37748

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10 - RA	99.3	101.3		mg/L		102	70 - 135	17	35
Diesel Range Organics (Over C10-C28) - RA	99.6	81.56		mg/L		82	70 - 135	7	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane - RA	87		70 - 135						
o-Terphenyl - RA	82		70 - 135						

Lab Sample ID: 880-10165-1 MS

Matrix: Water

Analysis Batch: 37712

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Batch: 37748

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	0.960	J	94.3	108.9		mg/L		114	70 - 135
Diesel Range Organics (Over C10-C28) - RA	1.06	J	94.6	85.25		mg/L		89	70 - 135

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: 880-10165-1 MS

Matrix: Water

Analysis Batch: 37712

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Batch: 37748

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane - RA	101		70 - 135
o-Terphenyl - RA	97		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-37631/3

Matrix: Water

Analysis Batch: 37631

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<0.200	U	0.500	0.200 mg/L			01/14/22 16:06	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			01/14/22 16:06	1	
Sulfate	<0.109	U	0.500	0.109 mg/L			01/14/22 16:06	1	

Lab Sample ID: LCS 860-37631/4

Matrix: Water

Analysis Batch: 37631

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS				%Rec.		
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	10.0	9.932		mg/L		99	90 - 110		
Fluoride	10.0	10.16		mg/L		102	90 - 110		
Sulfate	10.0	9.902		mg/L		99	90 - 110		

Lab Sample ID: LCSD 860-37631/5

Matrix: Water

Analysis Batch: 37631

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD				%Rec.		RPD	
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	10.0	10.42		mg/L		104	90 - 110	5	20	
Fluoride	10.0	10.17		mg/L		102	90 - 110	0	20	
Sulfate	10.0	10.00		mg/L		100	90 - 110	1	20	

Lab Sample ID: MB 860-37632/3

Matrix: Water

Analysis Batch: 37632

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			01/14/22 16:06	1	
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/14/22 16:06	1	

Lab Sample ID: LCS 860-37632/4

Matrix: Water

Analysis Batch: 37632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS				%Rec.		
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Nitrate as N	10.0	9.893		mg/L		99	80 - 120		
Nitrite as N	5.00	4.544		mg/L		91	80 - 120		

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-37632/5

Matrix: Water

Analysis Batch: 37632

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	9.898		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	4.562		mg/L		91	80 - 120	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-37662/11

Matrix: Water

Analysis Batch: 37662

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	mg/L			01/14/22 13:50	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			01/14/22 13:50	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			01/14/22 13:50	1

Lab Sample ID: LCS 860-37662/12

Matrix: Water

Analysis Batch: 37662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	234.2		mg/L		94	85 - 115

Lab Sample ID: LCSD 860-37662/13

Matrix: Water

Analysis Batch: 37662

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	235.5		mg/L		94	85 - 115	1	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-37782/1

Matrix: Water

Analysis Batch: 37782

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	mg/L			01/14/22 15:37	1

Lab Sample ID: LCS 860-37782/2

Matrix: Water

Analysis Batch: 37782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	51.4	49.60		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-37782/3

Matrix: Water

Analysis Batch: 37782

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	51.4	49.80		mg/L		97	80 - 120	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-10165-1

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

Lab Sample ID: 880-10165-1 MS

Matrix: Water

Analysis Batch: 37782

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	<0.495	U	51.4	50.20		mg/L		98	80 - 120

Lab Sample ID: 880-10165-1 MSD

Matrix: Water

Analysis Batch: 37782

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	<0.495	U	51.4	50.00		mg/L		97	80 - 120	0	20

QC Association Summary

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 37540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10165-1	MW-1	Total/NA	Water	8260C	
880-10165-2	MW-2	Total/NA	Water	8260C	
MB 860-37540/9	Method Blank	Total/NA	Water	8260C	
LCS 860-37540/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-37540/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 37739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10165-1	MW-1	Total/NA	Water	8260C	
880-10165-2	MW-2	Total/NA	Water	8260C	
MB 860-37739/10	Method Blank	Total/NA	Water	8260C	
LCS 860-37739/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-37739/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 37712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10165-1	MW-1	Total/NA	Water	8015B NM	37748
880-10165-2	MW-2	Total/NA	Water	8015B NM	37748
MB 860-37748/1-A	Method Blank	Total/NA	Water	8015B NM	37748
LCS 860-37748/2-A - RA	Lab Control Sample	Total/NA	Water	8015B NM	37748
LCSD 860-37748/3-A - RA	Lab Control Sample Dup	Total/NA	Water	8015B NM	37748
880-10165-1 MS - RA	MW-1	Total/NA	Water	8015B NM	37748

Analysis Batch: 37733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10165-1	MW-1	Total/NA	Water	8015 NM	
880-10165-2	MW-2	Total/NA	Water	8015 NM	

Prep Batch: 37748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10165-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-10165-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-37748/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-37748/2-A - RA	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-37748/3-A - RA	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-10165-1 MS - RA	MW-1	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 37631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10165-1	MW-1	Total/NA	Water	300.0	
880-10165-2	MW-2	Total/NA	Water	300.0	
MB 860-37631/3	Method Blank	Total/NA	Water	300.0	
LCS 860-37631/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-37631/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 37632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10165-1	MW-1	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

HPLC/IC (Continued)

Analysis Batch: 37632 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10165-2	MW-2	Total/NA	Water	300.0	
MB 860-37632/3	Method Blank	Total/NA	Water	300.0	
LCS 860-37632/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-37632/5	Lab Control Sample Dup	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 37634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10165-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-10165-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 37662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10165-1	MW-1	Total/NA	Water	SM 2320B	
880-10165-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-37662/11	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-37662/12	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-37662/13	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 37768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10165-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-10165-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 37782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10165-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-10165-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-37782/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-37782/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-37782/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-10165-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-10165-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Eurofins Midland

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-10165-1

Client Sample ID: MW-1

Lab Sample ID: 880-10165-1

Date Collected: 01/12/22 10:20

Matrix: Water

Date Received: 01/12/22 17:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	37540	01/14/22 18:12	EM	XEN STF
Total/NA	Analysis	8260C		1	37739	01/17/22 14:54	EM	XEN STF
Total/NA	Analysis	8015 NM		1	37733	01/17/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			37748	01/17/22 10:47	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	37712	01/17/22 13:54	IS	XEN STF
Total/NA	Analysis	300.0		1	37631	01/14/22 19:37	WP	XEN STF
Total/NA	Analysis	300.0		1	37632	01/14/22 19:37	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	37662	01/14/22 16:44	YGG	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	37768	01/17/22 14:17	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	37634	01/14/22 16:01	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	37782	01/14/22 15:37	YVD	XEN STF

Client Sample ID: MW-2

Lab Sample ID: 880-10165-2

Date Collected: 01/12/22 13:10

Matrix: Water

Date Received: 01/12/22 17:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	37540	01/14/22 18:31	EM	XEN STF
Total/NA	Analysis	8260C		1	37739	01/17/22 14:35	EM	XEN STF
Total/NA	Analysis	8015 NM		1	37733	01/17/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			37748	01/17/22 10:47	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	37712	01/17/22 14:34	IS	XEN STF
Total/NA	Analysis	300.0		1	37631	01/14/22 20:02	WP	XEN STF
Total/NA	Analysis	300.0		1	37632	01/14/22 20:02	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	37662	01/14/22 17:00	YGG	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	37768	01/17/22 14:17	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	37634	01/14/22 16:01	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	37782	01/14/22 15:37	YVD	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum

Job ID: 880-10165-1

Project/Site: South Hobbs - 03B1417002

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)
8260C		Water	Total BTEX
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: 880-10165-1

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

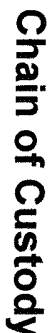
Sample Summary

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

Job ID: 880-10165-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10165-1	MW-1	Water	01/12/22 10:20	01/12/22 17:04
880-10165-2	MW-2	Water	01/12/22 13:10	01/12/22 17:04

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



M



880-10165 Chain of Custody

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

ANALYSIS REQUEST										Work Order Notes
500 CO2 c	76.2			00						

Number of Containers Red Carbon Dioxide 4 Red Sulfide SW-846 #3 SW-846 #8260 A Method #8015 EPA Method #846 3 SW-846 Method 150.	TAT starts the day received by the lab, if received by 4:30pm

[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 \$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 		1-12-22 16:44	2		
3			4		
5			6		

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

Chain of Custody Record



Environment - testing
America

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-10165-1

Login Number: 10165

List Number: 1

Creator: Teel, Brianna

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: 880-10165-1

Login Number: 10165

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 01/14/22 01:20 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: 880-10404-1

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:
1/21/2022 7:07:30 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.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: South Hobbs - 03B1417002

Laboratory Job ID: 880-10404-1

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Definitions/Glossary

Client: Ensolum

Job ID: 880-10404-1

Project/Site: South Hobbs - 03B1417002

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
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

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Definitions/Glossary

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

Job ID: 880-10404-1

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: 880-10404-1

Job ID: 880-10404-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-10404-1

Receipt

The samples were received on 1/19/2022 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-38259 recovered outside control limits for the following analytes: 2,2-Dichloropropane. 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 duplicate (MSD) recoveries for the following sample associated with analytical batch 860-38259 were outside control limits: (860-19302-F-1 MSD). Note: Sample is ND.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (880-10404-2). 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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-38272 were outside control limits. Sample matrix interference and/or non-homogeneity are 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: 880-10404-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-10404-1

Date Collected: 01/19/22 09:55

Matrix: Water

Date Received: 01/19/22 16:15

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			01/20/22 17:59	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/20/22 17:59	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/20/22 17:59	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/20/22 17:59	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/20/22 17:59	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/20/22 17:59	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/20/22 17:59	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/20/22 17:59	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/20/22 17:59	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/20/22 17:59	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/20/22 17:59	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/20/22 17:59	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/20/22 17:59	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/20/22 17:59	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/20/22 17:59	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/20/22 17:59	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/20/22 17:59	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/20/22 17:59	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/20/22 17:59	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/20/22 17:59	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/20/22 17:59	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/20/22 17:59	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/20/22 17:59	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/20/22 17:59	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/20/22 17:59	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/20/22 17:59	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/20/22 17:59	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/20/22 17:59	1
2,2-Dichloropropane	<0.000360	U *	0.00500	0.000360 mg/L			01/20/22 17:59	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/20/22 17:59	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/20/22 17:59	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 17:59	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			01/20/22 17:59	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/20/22 17:59	1
m,p-Xylenes	0.000640	J	0.0100	0.000330 mg/L			01/20/22 17:59	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/20/22 17:59	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/20/22 17:59	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/20/22 17:59	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/20/22 17:59	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/20/22 17:59	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/20/22 17:59	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/20/22 17:59	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/20/22 17:59	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/20/22 17:59	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/20/22 17:59	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/20/22 17:59	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/20/22 17:59	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/20/22 17:59	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			01/20/22 17:59	1

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Client Sample Results

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

Job ID: 880-10404-1

Client Sample ID: MW-1

Lab Sample ID: 880-10404-1

Date Collected: 01/19/22 09:55

Matrix: Water

Date Received: 01/19/22 16:15

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			01/20/22 17:59	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 17:59	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 17:59	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/20/22 17:59	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/20/22 17:59	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/20/22 17:59	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/20/22 17:59	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/20/22 17:59	1
1,2,4-Trimethylbenzene	0.000414	J	0.00100	0.000252 mg/L			01/20/22 17:59	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/20/22 17:59	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/20/22 17:59	1
Xylenes, Total	0.000640	J	0.0100	0.000330 mg/L			01/20/22 17:59	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			01/20/22 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		74 - 124		01/20/22 17:59	1
Dibromofluoromethane (Surr)	105		75 - 131		01/20/22 17:59	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		01/20/22 17:59	1
Toluene-d8 (Surr)	104		80 - 117		01/20/22 17:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.912	U	4.62	0.912 mg/L			01/21/22 10:56	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	<0.912	U	4.62	0.912 mg/L		01/20/22 15:33	01/20/22 22:34	1
Diesel Range Organics (Over C10-C28)	<0.912	U	4.62	0.912 mg/L		01/20/22 15:33	01/20/22 22:34	1
Oil Range Organics (Over C28-C36)	<0.880	U	4.62	0.880 mg/L		01/20/22 15:33	01/20/22 22:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 135			01/20/22 15:33	01/20/22 22:34	1
o-Terphenyl	117		70 - 135			01/20/22 15:33	01/20/22 22:34	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		0.500	0.200 mg/L			01/20/22 17:14	1
Nitrate as N	0.145		0.100	0.0391 mg/L			01/20/22 17:14	1
Fluoride	0.532	F1	0.500	0.100 mg/L			01/20/22 17:14	1
Nitrite as N	0.227		0.100	0.0293 mg/L			01/20/22 17:14	1
Sulfate	45.1		0.500	0.109 mg/L			01/20/22 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	324		4.00	4.00 mg/L			01/20/22 14:44	1
Bicarbonate Alkalinity as CaCO3	324		4.00	4.00 mg/L			01/20/22 14:44	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/20/22 14:44	1
Carbon dioxide	342			mg/L			01/21/22 11:48	1
Carbon Dioxide, Free	56.4			mg/L			01/21/22 11:48	1

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Client Sample Results

Client: Ensolum

Job ID: 880-10404-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-10404-1

Date Collected: 01/19/22 09:55

Matrix: Water

Date Received: 01/19/22 16:15

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.0	HF		SU			01/20/22 14:36	1
Temperature	18.0	HF		Celsius			01/20/22 14:36	1
Sulfide	<0.495	U	5.00	0.495 mg/L			01/21/22 16:15	1

Client Sample ID: MW-2

Lab Sample ID: 880-10404-2

Date Collected: 01/19/22 11:40

Matrix: Water

Date Received: 01/19/22 16:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0262		0.00100	0.000214 mg/L			01/20/22 18:20	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/20/22 18:20	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/20/22 18:20	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/20/22 18:20	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/20/22 18:20	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/20/22 18:20	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/20/22 18:20	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/20/22 18:20	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/20/22 18:20	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/20/22 18:20	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/20/22 18:20	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/20/22 18:20	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/20/22 18:20	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/20/22 18:20	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/20/22 18:20	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/20/22 18:20	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/20/22 18:20	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/20/22 18:20	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/20/22 18:20	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/20/22 18:20	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/20/22 18:20	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/20/22 18:20	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/20/22 18:20	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/20/22 18:20	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/20/22 18:20	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/20/22 18:20	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/20/22 18:20	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/20/22 18:20	1
2,2-Dichloropropane	<0.000360	U *	0.00500	0.000360 mg/L			01/20/22 18:20	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/20/22 18:20	1
Ethylbenzene	0.0305		0.00100	0.000515 mg/L			01/20/22 18:20	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 18:20	1
Isopropylbenzene	0.0142		0.00100	0.000161 mg/L			01/20/22 18:20	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/20/22 18:20	1
m,p-Xylenes	0.229		0.0500	0.00165 mg/L			01/20/22 18:43	5
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/20/22 18:20	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/20/22 18:20	1
n-Butylbenzene	0.00104		0.00100	0.000286 mg/L			01/20/22 18:20	1
N-Propylbenzene	0.00403		0.00100	0.000179 mg/L			01/20/22 18:20	1
o-Xylene	0.0147		0.00100	0.000192 mg/L			01/20/22 18:20	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-10404-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-10404-2

Date Collected: 01/19/22 11:40

Matrix: Water

Date Received: 01/19/22 16:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Cymene (p-Isopropyltoluene)	0.00116		0.00100	0.000233 mg/L			01/20/22 18:20	1
sec-Butylbenzene	0.00147		0.00100	0.000199 mg/L			01/20/22 18:20	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/20/22 18:20	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/20/22 18:20	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/20/22 18:20	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/20/22 18:20	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/20/22 18:20	1
Toluene	0.00733		0.00100	0.000500 mg/L			01/20/22 18:20	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			01/20/22 18:20	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/20/22 18:20	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 18:20	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 18:20	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/20/22 18:20	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/20/22 18:20	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/20/22 18:20	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/20/22 18:20	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/20/22 18:20	1
1,2,4-Trimethylbenzene	0.0435		0.00100	0.000252 mg/L			01/20/22 18:20	1
1,3,5-Trimethylbenzene	0.0115		0.00100	0.000279 mg/L			01/20/22 18:20	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/20/22 18:20	1
Xylenes, Total	0.249		0.0500	0.00165 mg/L			01/20/22 18:43	5
Total BTEX	0.335		0.0500	0.00107 mg/L			01/20/22 18:43	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		01/20/22 18:20	1
4-Bromofluorobenzene (Surr)	101		74 - 124		01/20/22 18:43	5
Dibromofluoromethane (Surr)	99		75 - 131		01/20/22 18:20	1
Dibromofluoromethane (Surr)	108		75 - 131		01/20/22 18:43	5
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		01/20/22 18:20	1
1,2-Dichloroethane-d4 (Surr)	113		63 - 144		01/20/22 18:43	5
Toluene-d8 (Surr)	95		80 - 117		01/20/22 18:20	1
Toluene-d8 (Surr)	99		80 - 117		01/20/22 18:43	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2.83	J	4.63	0.915 mg/L			01/21/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.83	J	4.63	0.915	mg/L		01/20/22 15:33	01/21/22 09:43	1
Diesel Range Organics (Over C10-C28)	<0.915	U	4.63	0.915	mg/L		01/20/22 15:33	01/21/22 09:43	1
Oil Range Organics (Over C28-C36)	<0.883	U	4.63	0.883	mg/L		01/20/22 15:33	01/21/22 09:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 135				01/20/22 15:33	01/21/22 09:43	1
o-Terphenyl	93		70 - 135				01/20/22 15:33	01/21/22 09:43	1

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Client Sample Results

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

Job ID: 880-10404-1

Client Sample ID: MW-2
Date Collected: 01/19/22 11:40
Date Received: 01/19/22 16:15

Lab Sample ID: 880-10404-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		0.500	0.200	mg/L			01/20/22 18:15	1
Nitrate as N	0.591		0.100	0.0391	mg/L			01/20/22 18:15	1
Fluoride	<0.100	U	0.500	0.100	mg/L			01/20/22 18:15	1
Nitrite as N	0.757		0.100	0.0293	mg/L			01/20/22 18:15	1
Sulfate	104		0.500	0.109	mg/L			01/20/22 18:15	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1290		4.00	4.00	mg/L			01/20/22 15:17	1
Bicarbonate Alkalinity as CaCO3	1290		4.00	4.00	mg/L			01/20/22 15:17	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			01/20/22 15:17	1
Carbon dioxide	2560				mg/L			01/21/22 11:48	1
Carbon Dioxide, Free	1420				mg/L			01/21/22 11:48	1
pH	6.1	HF			SU			01/20/22 14:36	1
Temperature	18.2	HF			Celsius			01/20/22 14:36	1
Sulfide	<0.495	U	5.00	0.495	mg/L			01/21/22 16:15	1

Surrogate Summary

Client: Ensolum

Job ID: 880-10404-1

Project/Site: South Hobbs - 03B1417002

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)
860-19302-F-1 MS	Matrix Spike	105	106	101	99
860-19302-F-1 MSD	Matrix Spike Duplicate	103	105	102	100
880-10404-1	MW-1	106	105	105	104
880-10404-2	MW-2	98	99	102	95
880-10404-2	MW-2	101	108	113	99
LCS 860-38259/3	Lab Control Sample	104	105	101	99
LCSD 860-38259/4	Lab Control Sample Dup	104	104	103	100
MB 860-38259/10	Method Blank	104	104	102	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
880-10404-1	MW-1	115	117
880-10404-1 MS	MW-1	133	107
880-10404-2 - RA	MW-2	91	93
LCS 860-38341/2-A	Lab Control Sample	131	105
LCSD 860-38341/3-A	Lab Control Sample Dup	129	102
MB 860-38341/1-A	Method Blank	123	126
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-10404-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-38259/10

Matrix: Water

Analysis Batch: 38259

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			01/20/22 14:34	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/20/22 14:34	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/20/22 14:34	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/20/22 14:34	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/20/22 14:34	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/20/22 14:34	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/20/22 14:34	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/20/22 14:34	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/20/22 14:34	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/20/22 14:34	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/20/22 14:34	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/20/22 14:34	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/20/22 14:34	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/20/22 14:34	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/20/22 14:34	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/20/22 14:34	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/20/22 14:34	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/20/22 14:34	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/20/22 14:34	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/20/22 14:34	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/20/22 14:34	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/20/22 14:34	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/20/22 14:34	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/20/22 14:34	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/20/22 14:34	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/20/22 14:34	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/20/22 14:34	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/20/22 14:34	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/20/22 14:34	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/20/22 14:34	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/20/22 14:34	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 14:34	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			01/20/22 14:34	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/20/22 14:34	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/20/22 14:34	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/20/22 14:34	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/20/22 14:34	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/20/22 14:34	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/20/22 14:34	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/20/22 14:34	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/20/22 14:34	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/20/22 14:34	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/20/22 14:34	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/20/22 14:34	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/20/22 14:34	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/20/22 14:34	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/20/22 14:34	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/20/22 14:34	1

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QC Sample Results

Client: Ensolum

Job ID: 880-10404-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-38259/10

Matrix: Water

Analysis Batch: 38259

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			01/20/22 14:34	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/20/22 14:34	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 14:34	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/20/22 14:34	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/20/22 14:34	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/20/22 14:34	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/20/22 14:34	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/20/22 14:34	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/20/22 14:34	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/20/22 14:34	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/20/22 14:34	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/20/22 14:34	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/20/22 14:34	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			01/20/22 14:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		01/20/22 14:34	1
Dibromofluoromethane (Surr)	104		75 - 131		01/20/22 14:34	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		01/20/22 14:34	1
Toluene-d8 (Surr)	101		80 - 117		01/20/22 14:34	1

Lab Sample ID: LCS 860-38259/3

Matrix: Water

Analysis Batch: 38259

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	0.05180		mg/L		104	66 - 142
Bromobenzene	0.0500	0.05270		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05463		mg/L		109	60 - 140
Bromodichloromethane	0.0500	0.05628		mg/L		113	75 - 125
Bromoform	0.0500	0.05056		mg/L		101	75 - 125
Bromomethane	0.0500	0.04192		mg/L		84	60 - 140
2-Butanone	0.250	0.2504		mg/L		100	60 - 140
Carbon tetrachloride	0.0500	0.05426		mg/L		109	62 - 125
Chlorobenzene	0.0500	0.05102		mg/L		102	60 - 133
Chloroethane	0.0500	0.05198		mg/L		104	60 - 140
Chloroform	0.0500	0.05810		mg/L		116	70 - 130
Chloromethane	0.0500	0.04515		mg/L		90	60 - 140
2-Chlorotoluene	0.0500	0.05430		mg/L		109	73 - 125
4-Chlorotoluene	0.0500	0.05392		mg/L		108	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05687		mg/L		114	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05470		mg/L		109	74 - 125
Dibromochloromethane	0.0500	0.05305		mg/L		106	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04714		mg/L		94	59 - 125
1,2-Dibromoethane	0.0500	0.05150		mg/L		103	73 - 125
1,2-Dichlorobenzene	0.0500	0.05284		mg/L		106	75 - 125
1,3-Dichlorobenzene	0.0500	0.05260		mg/L		105	75 - 125
1,4-Dichlorobenzene	0.0500	0.05049		mg/L		101	75 - 125

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QC Sample Results

Client: Ensolum

Job ID: 880-10404-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-38259/3

Matrix: Water

Analysis Batch: 38259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.05201		mg/L		104	70 - 130
1,1-Dichloroethane	0.0500	0.05715		mg/L		114	72 - 125
1,2-Dichloroethane	0.0500	0.05414		mg/L		108	68 - 127
1,1-Dichloroethene	0.0500	0.05390		mg/L		108	59 - 172
1,2-Dichloropropane	0.0500	0.05602		mg/L		112	74 - 125
1,3-Dichloropropane	0.0500	0.05327		mg/L		107	75 - 125
2,2-Dichloropropane	0.0500	0.06314	*+	mg/L		126	75 - 125
1,1-Dichloropropene	0.0500	0.05345		mg/L		107	75 - 125
Ethylbenzene	0.0500	0.05211		mg/L		104	75 - 125
Hexachlorobutadiene	0.0500	0.05166		mg/L		103	75 - 125
Isopropylbenzene	0.0500	0.05273		mg/L		105	75 - 125
Methylene Chloride	0.0500	0.05404		mg/L		108	75 - 125
m,p-Xylenes	0.0500	0.05223		mg/L		104	75 - 125
MTBE	0.0500	0.05785		mg/L		116	65 - 135
Naphthalene	0.0500	0.05067		mg/L		101	70 - 130
n-Butylbenzene	0.0500	0.05341		mg/L		107	75 - 125
N-Propylbenzene	0.0500	0.05384		mg/L		108	75 - 125
o-Xylene	0.0500	0.05288		mg/L		106	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05243		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05363		mg/L		107	75 - 125
Styrene	0.0500	0.05255		mg/L		105	75 - 125
tert-Butylbenzene	0.0500	0.05335		mg/L		107	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05537		mg/L		111	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05418		mg/L		108	74 - 125
Tetrachloroethene	0.0500	0.04866		mg/L		97	71 - 125
Toluene	0.0500	0.05056		mg/L		101	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05071		mg/L		101	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05392		mg/L		108	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05143		mg/L		103	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05191		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.05669		mg/L		113	75 - 125
1,1,2-Trichloroethane	0.0500	0.05415		mg/L		108	75 - 127
Trichloroethene	0.0500	0.05178		mg/L		104	62 - 137
Trichlorofluoromethane	0.0500	0.05461		mg/L		109	60 - 140
1,2,3-Trichloropropane	0.0500	0.05179		mg/L		104	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05252		mg/L		105	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05277		mg/L		106	60 - 140
Vinyl chloride	0.0500	0.04942		mg/L		99	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		74 - 124
Dibromofluoromethane (Surr)	105		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

Job ID: 880-10404-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-38259/4

Matrix: Water

Analysis Batch: 38259

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	0.05032		mg/L		101	66 - 142	3	25
Bromobenzene	0.0500	0.05192		mg/L		104	75 - 125	1	25
Bromochloromethane	0.0500	0.05198		mg/L		104	60 - 140	5	25
Bromodichloromethane	0.0500	0.05508		mg/L		110	75 - 125	2	25
Bromoform	0.0500	0.05100		mg/L		102	75 - 125	1	25
Bromomethane	0.0500	0.03967		mg/L		79	60 - 140	6	25
2-Butanone	0.250	0.2456		mg/L		98	60 - 140	2	25
Carbon tetrachloride	0.0500	0.05181		mg/L		104	62 - 125	5	25
Chlorobenzene	0.0500	0.05050		mg/L		101	60 - 133	1	25
Chloroethane	0.0500	0.04235		mg/L		85	60 - 140	20	25
Chloroform	0.0500	0.05500		mg/L		110	70 - 130	5	25
Chloromethane	0.0500	0.04264		mg/L		85	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05310		mg/L		106	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05274		mg/L		105	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.05423		mg/L		108	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.05333		mg/L		107	74 - 125	3	25
Dibromochloromethane	0.0500	0.05289		mg/L		106	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05002		mg/L		100	59 - 125	6	25
1,2-Dibromoethane	0.0500	0.05136		mg/L		103	73 - 125	0	25
1,2-Dichlorobenzene	0.0500	0.05202		mg/L		104	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.05149		mg/L		103	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04982		mg/L		100	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04946		mg/L		99	70 - 130	5	25
1,1-Dichloroethane	0.0500	0.05480		mg/L		110	72 - 125	4	25
1,2-Dichloroethane	0.0500	0.05229		mg/L		105	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.05049		mg/L		101	59 - 172	7	25
1,2-Dichloropropane	0.0500	0.05466		mg/L		109	74 - 125	2	25
1,3-Dichloropropane	0.0500	0.05341		mg/L		107	75 - 125	0	25
2,2-Dichloropropane	0.0500	0.06007		mg/L		120	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.05149		mg/L		103	75 - 125	4	25
Ethylbenzene	0.0500	0.05137		mg/L		103	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05143		mg/L		103	75 - 125	0	25
Isopropylbenzene	0.0500	0.05172		mg/L		103	75 - 125	2	25
Methylene Chloride	0.0500	0.05122		mg/L		102	75 - 125	5	25
m,p-Xylenes	0.0500	0.05125		mg/L		102	75 - 125	2	25
MTBE	0.0500	0.05536		mg/L		111	65 - 135	4	25
Naphthalene	0.0500	0.05611		mg/L		112	70 - 130	10	25
n-Butylbenzene	0.0500	0.05185		mg/L		104	75 - 125	3	25
N-Propylbenzene	0.0500	0.05235		mg/L		105	75 - 125	3	25
o-Xylene	0.0500	0.05200		mg/L		104	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05168		mg/L		103	75 - 125	1	25
sec-Butylbenzene	0.0500	0.05221		mg/L		104	75 - 125	3	25
Styrene	0.0500	0.05165		mg/L		103	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05198		mg/L		104	75 - 125	3	25
1,1,1,2-Tetrachloroethane	0.0500	0.05431		mg/L		109	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.05448		mg/L		109	74 - 125	1	25
Tetrachloroethene	0.0500	0.04814		mg/L		96	71 - 125	1	25
Toluene	0.0500	0.04975		mg/L		100	59 - 139	2	25

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QC Sample Results

Client: Ensolum

Job ID: 880-10404-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-38259/4

Matrix: Water

Analysis Batch: 38259

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	0.04849		mg/L		97	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05267		mg/L		105	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05563		mg/L		111	75 - 137	8	25
1,2,4-Trichlorobenzene	0.0500	0.05291		mg/L		106	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05454		mg/L		109	75 - 125	4	25
1,1,2-Trichloroethane	0.0500	0.05342		mg/L		107	75 - 127	1	25
Trichloroethene	0.0500	0.05039		mg/L		101	62 - 137	3	25
Trichlorofluoromethane	0.0500	0.05104		mg/L		102	60 - 140	7	25
1,2,3-Trichloropropane	0.0500	0.05440		mg/L		109	75 - 125	5	25
1,2,4-Trimethylbenzene	0.0500	0.05160		mg/L		103	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.05165		mg/L		103	60 - 140	2	25
Vinyl chloride	0.0500	0.04635		mg/L		93	60 - 140	6	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	100		80 - 117

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

Lab Sample ID: MB 860-38341/1-A

Matrix: Water

Analysis Batch: 38351

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38341

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		01/20/22 15:33	01/20/22 21:39	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		01/20/22 15:33	01/20/22 21:39	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		01/20/22 15:33	01/20/22 21:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 135	01/20/22 15:33	01/20/22 21:39	1
o-Terphenyl	126		70 - 135	01/20/22 15:33	01/20/22 21:39	1

Lab Sample ID: LCS 860-38341/2-A

Matrix: Water

Analysis Batch: 38351

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	99.3	122.3		mg/L		123	70 - 135
Diesel Range Organics (Over C10-C28)	99.6	85.51		mg/L		86	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	131		70 - 135
o-Terphenyl	105		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-10404-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-38341/3-A

Matrix: Water

Analysis Batch: 38351

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 38341

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	99.3	119.3		mg/L		120	70 - 135	3	35
Diesel Range Organics (Over C10-C28)	99.6	88.06		mg/L		88	70 - 135	3	35
		LCSD	LCSD						
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	129		70 - 135						
o-Terphenyl	102		70 - 135						

Lab Sample ID: 880-10404-1 MS

Matrix: Water

Analysis Batch: 38351

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Batch: 38341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<0.912	U	92.0	112.4		mg/L		122	70 - 135		
Diesel Range Organics (Over C10-C28)	<0.912	U	92.3	80.33		mg/L		87	70 - 135		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	133		70 - 135								
o-Terphenyl	107		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-38272/3

Matrix: Water

Analysis Batch: 38272

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			01/20/22 15:37	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/20/22 15:37	1
Sulfate	<0.109	U	0.500	0.109 mg/L			01/20/22 15:37	1

Lab Sample ID: LCS 860-38272/4

Matrix: Water

Analysis Batch: 38272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	10.0	10.06		mg/L		101	90 - 110		
Fluoride	10.0	10.41		mg/L		104	90 - 110		
Sulfate	10.0	9.832		mg/L		98	90 - 110		

Lab Sample ID: LCSD 860-38272/5

Matrix: Water

Analysis Batch: 38272

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	10.0	10.22		mg/L		102	90 - 110	2	20
Fluoride	10.0	10.52		mg/L		105	90 - 110	1	20

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QC Sample Results

Client: Ensolum

Job ID: 880-10404-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-38272/5

Matrix: Water

Analysis Batch: 38272

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	9.974		mg/L		100	90 - 110	1	20

Lab Sample ID: 880-10404-1 MS

Matrix: Water

Analysis Batch: 38272

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	RPD	RPD Limit
Chloride	141		10.0	151.5	4	mg/L		102	90 - 110		
Fluoride	0.532	F1	10.0	6.749	F1	mg/L		62	90 - 110		
Sulfate	45.1		10.0	53.70	4	mg/L		86	90 - 110		

Lab Sample ID: 880-10404-1 MSD

Matrix: Water

Analysis Batch: 38272

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	141		10.0	151.2	4	mg/L		100	90 - 110	0	20
Fluoride	0.532	F1	10.0	6.872	F1	mg/L		63	90 - 110	2	20
Sulfate	45.1		10.0	53.62	4	mg/L		85	90 - 110	0	20

Lab Sample ID: MB 860-38273/3

Matrix: Water

Analysis Batch: 38273

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			01/20/22 15:37	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/20/22 15:37	1

Lab Sample ID: LCS 860-38273/4

Matrix: Water

Analysis Batch: 38273

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	10.03		mg/L		100	80 - 120		
Nitrite as N	5.00	4.644		mg/L		93	80 - 120		

Lab Sample ID: LCSD 860-38273/5

Matrix: Water

Analysis Batch: 38273

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	10.13		mg/L		101	80 - 120	1	20
Nitrite as N	5.00	4.691		mg/L		94	80 - 120	1	20

Lab Sample ID: 880-10404-1 MS

Matrix: Water

Analysis Batch: 38273

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	RPD	RPD Limit
Nitrate as N	0.145		10.0	9.641		mg/L		95	80 - 120		

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QC Sample Results

Client: Ensolum

Job ID: 880-10404-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-10404-1 MS

Matrix: Water

Analysis Batch: 38273

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.227		5.00	5.035	E	mg/L		96	80 - 120

Lab Sample ID: 880-10404-1 MSD

Matrix: Water

Analysis Batch: 38273

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	0.145		10.0	9.634		mg/L		95	80 - 120	0	15
Nitrite as N	0.227		5.00	5.027	E	mg/L		96	80 - 120	0	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-38336/14

Matrix: Water

Analysis Batch: 38336

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			01/20/22 13:23	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/20/22 13:23	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/20/22 13:23	1

Lab Sample ID: LCS 860-38336/15

Matrix: Water

Analysis Batch: 38336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	260.5		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-38336/16

Matrix: Water

Analysis Batch: 38336

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	253.2		mg/L		101	85 - 115	3	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-38503/1

Matrix: Water

Analysis Batch: 38503

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			01/21/22 16:15	1

Lab Sample ID: LCS 860-38503/2

Matrix: Water

Analysis Batch: 38503

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	51.4	45.40		mg/L		88	80 - 120

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QC Sample Results

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

Job ID: 880-10404-1

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

Lab Sample ID: LCSD 860-38503/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 38503											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide			51.4	45.60		mg/L		89	80 - 120	0	20

Lab Sample ID: 880-10404-1 MS				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 38503											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide	<0.495	U	51.4	46.40		mg/L		90	80 - 120		

Lab Sample ID: 880-10404-1 MSD				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 38503											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	<0.495	U	51.4	46.80		mg/L		91	80 - 120	1	20

QC Association Summary

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

Job ID: 880-10404-1

GC/MS VOA

Analysis Batch: 38259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10404-1	MW-1	Total/NA	Water	8260C	
880-10404-2	MW-2	Total/NA	Water	8260C	
880-10404-2	MW-2	Total/NA	Water	8260C	
MB 860-38259/10	Method Blank	Total/NA	Water	8260C	
LCS 860-38259/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-38259/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 37733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10404-1	MW-1	Total/NA	Water	8015 NM	
880-10404-2	MW-2	Total/NA	Water	8015 NM	

Prep Batch: 38341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10404-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-10404-2 - RA	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-38341/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-38341/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-38341/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-10404-1 MS	MW-1	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 38351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10404-1	MW-1	Total/NA	Water	8015B NM	38341
MB 860-38341/1-A	Method Blank	Total/NA	Water	8015B NM	38341
LCS 860-38341/2-A	Lab Control Sample	Total/NA	Water	8015B NM	38341
LCSD 860-38341/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	38341
880-10404-1 MS	MW-1	Total/NA	Water	8015B NM	38341

Analysis Batch: 38388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10404-2 - RA	MW-2	Total/NA	Water	8015B NM	38341

HPLC/IC

Analysis Batch: 38272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10404-1	MW-1	Total/NA	Water	300.0	
880-10404-2	MW-2	Total/NA	Water	300.0	
MB 860-38272/3	Method Blank	Total/NA	Water	300.0	
LCS 860-38272/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-38272/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-10404-1 MS	MW-1	Total/NA	Water	300.0	
880-10404-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 38273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10404-1	MW-1	Total/NA	Water	300.0	
880-10404-2	MW-2	Total/NA	Water	300.0	
MB 860-38273/3	Method Blank	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-10404-1

HPLC/IC (Continued)

Analysis Batch: 38273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-38273/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-38273/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-10404-1 MS	MW-1	Total/NA	Water	300.0	
880-10404-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 38295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10404-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-10404-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 38336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10404-1	MW-1	Total/NA	Water	SM 2320B	
880-10404-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-38336/14	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-38336/15	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-38336/16	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 38446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10404-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-10404-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 38503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10404-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-10404-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-38503/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-38503/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-38503/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-10404-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-10404-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-10404-1

Client Sample ID: MW-1

Lab Sample ID: 880-10404-1

Date Collected: 01/19/22 09:55

Matrix: Water

Date Received: 01/19/22 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	38259	01/20/22 17:59	EM	XEN STF
Total/NA	Analysis	8015 NM		1	37733	01/21/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			38341	01/20/22 15:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	38351	01/20/22 22:34	T1S	XEN STF
Total/NA	Analysis	300.0		1	38272	01/20/22 17:14	WP	XEN STF
Total/NA	Analysis	300.0		1	38273	01/20/22 17:14	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	38336	01/20/22 14:44	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	38446	01/21/22 11:48	ANP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	38295	01/20/22 14:36	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	38503	01/21/22 16:15	YVD	XEN STF

Client Sample ID: MW-2

Lab Sample ID: 880-10404-2

Date Collected: 01/19/22 11:40

Matrix: Water

Date Received: 01/19/22 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	38259	01/20/22 18:20	EM	XEN STF
Total/NA	Analysis	8260C		5	38259	01/20/22 18:43	EM	XEN STF
Total/NA	Analysis	8015 NM		1	37733	01/21/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep	RA		38341	01/20/22 15:33	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1	38388	01/21/22 09:43	IS	XEN STF
Total/NA	Analysis	300.0		1	38272	01/20/22 18:15	WP	XEN STF
Total/NA	Analysis	300.0		1	38273	01/20/22 18:15	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	38336	01/20/22 15:17	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	38446	01/21/22 11:48	ANP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	38295	01/20/22 14:36	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	38503	01/21/22 16:15	YVD	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: 880-10404-1

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)
8260C		Water	Total BTEX
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: 880-10404-1

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: 880-10404-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10404-1	MW-1	Water	01/19/22 09:55	01/19/22 16:15
880-10404-2	MW-2	Water	01/19/22 11:40	01/19/22 16:15

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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) 382-7550 Phoenix AZ (480) 355-0900 Atlanta GA (770) 449-8800 Tampa FL (813) 888-8888

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:	bjenning@ensolum.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	<i>New Mexico</i>
Reporting Level II	☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD	☐ Adapt ☐ Other

Project Name:	South Hobbs	Turn Around	ANALYSIS REQUEST							Work Order Notes
Project Number:	03B1417002	Routine ☐								
P.O. Number:	03B1417002	Rush 24 Hr								
Sampler's Name:	Aaron Marquez	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:

of Containers

Carbon Dioxide 46

Sulfide SW-846 #37

SW-846 #8260

Method #8015

EPA Method #846 30

SW-846 Method 150.1

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

Sample Identification					Matrix	Date Sampled	Time Sampled	Depth	Number	Dissolve	Dissove	VOC SW	TPH EPA	Chloride	pH EPA	Sample Comments
MW-1	GW	1-19-22	0955	75'	7	X	X	X	X	X	X	X	X	X	X	24 Hr
MW-2	GW	1-19-22	1140	85'	7	X	X	X	X	X	X	X	X	X	X	

NOTE
AAAA 1-19-22

CUSTODY SEAL

Date 1-19-22
 Signature [Signature]

in
 S C

99006

CUSTODY SEAL
Date 1-19-22
Signature [Signature]

[illegible]

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		1-19-22 16:07	2		
3			4		
5			6		



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0350 San Antonio, TX (210) 509-3333
Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 233-3927
Hobbs, NM (575) 392-7550



1/21/2022

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 ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: <i>New Mexico</i> Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐ Deliverables EDD ☐ ADAPT ☐ Other ☐	

Project Name:	South Hobbs	Turn Around
Project Number:	03B1417002	Routine ☐
P.O. Number:	03B1417002	Rush 24 Hr
Sampler's Name:	Aaron Marquez	Due Date

[illegible]

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Loc:	Yes	No
Temperature (°C):	16/1.7						
Received In tact:	Yes	No					
Cooler Custody Seals:	Yes	No	N/A				
Sample Custody Seals:	Yes	No	N/A				
					Total Containers:	10	

Number of Containers Reduced Carbon Dioxide 46 Reduced Sulfide SW-846 #37 SW-846 #8260 Method #8015 EPA Method #846 30 SW-846 Method 150.1	TAT starts the day received by the lab, if received by 4:30pm

[illegible]

CUSTODY SEAL

Date 1-19-22
Signature [Signature]

50006

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	Ti	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	Ti	U											
																									1631 / 245.1	7470	7471	Hg				

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		11-19-22 16:07			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-10404-1

Login Number: 10404

List Number: 1

Creator: Teel, Brianna

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: 880-10404-1

Login Number: 10404

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 01/20/22 12:36 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: 880-10647-1

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:
1/31/2022 1:17:05 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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results through

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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: 880-10647-1

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Definitions/Glossary

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

Job ID: 880-10647-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

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

Glossary

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

Case Narrative

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

Job ID: 880-10647-1

Job ID: 880-10647-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-10647-1

Receipt

The samples were received on 1/26/2022 4:30 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 2.0°C

GC/MS VOA

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-39057 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.

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: 880-10647-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-10647-1

Date Collected: 01/26/22 10:25

Matrix: Water

Date Received: 01/26/22 16:30

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			01/27/22 17:04	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/27/22 17:04	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/27/22 17:04	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/27/22 17:04	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/27/22 17:04	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/27/22 17:04	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/27/22 17:04	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/27/22 17:04	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/27/22 17:04	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/27/22 17:04	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/27/22 17:04	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/27/22 17:04	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/27/22 17:04	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/27/22 17:04	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/27/22 17:04	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/27/22 17:04	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/27/22 17:04	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/27/22 17:04	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/27/22 17:04	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/27/22 17:04	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/27/22 17:04	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/27/22 17:04	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/27/22 17:04	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/27/22 17:04	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/27/22 17:04	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/27/22 17:04	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/27/22 17:04	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/27/22 17:04	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/27/22 17:04	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/27/22 17:04	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/27/22 17:04	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/27/22 17:04	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			01/27/22 17:04	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/27/22 17:04	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/27/22 17:04	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/27/22 17:04	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/27/22 17:04	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/27/22 17:04	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/27/22 17:04	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/27/22 17:04	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/27/22 17:04	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/27/22 17:04	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/27/22 17:04	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/27/22 17:04	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/27/22 17:04	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/27/22 17:04	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/27/22 17:04	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/27/22 17:04	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			01/27/22 17:04	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-10647-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-10647-1

Date Collected: 01/26/22 10:25

Matrix: Water

Date Received: 01/26/22 16:30

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			01/27/22 17:04	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/27/22 17:04	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/27/22 17:04	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/27/22 17:04	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/27/22 17:04	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/27/22 17:04	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/27/22 17:04	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/27/22 17:04	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/27/22 17:04	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/27/22 17:04	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/27/22 17:04	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/27/22 17:04	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			01/27/22 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		74 - 124		01/27/22 17:04	1
Dibromofluoromethane (Surr)	97		75 - 131		01/27/22 17:04	1
1,2-Dichloroethane-d4 (Surr)	112		63 - 144		01/27/22 17:04	1
Toluene-d8 (Surr)	104		80 - 117		01/27/22 17:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898 mg/L			01/28/22 10:56	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	<0.898	U	4.55	0.898 mg/L		01/28/22 09:45	01/28/22 14:57	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898 mg/L		01/28/22 09:45	01/28/22 14:57	1
Oil Range Organics (Over C28-C36)	<0.867	U	4.55	0.867 mg/L		01/28/22 09:45	01/28/22 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	01/28/22 09:45	01/28/22 14:57	1
o-Terphenyl	85		70 - 135	01/28/22 09:45	01/28/22 14:57	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		0.500	0.200 mg/L			01/27/22 18:19	1
Nitrate as N	0.177		0.100	0.0391 mg/L			01/27/22 18:19	1
Fluoride	0.548		0.500	0.100 mg/L			01/27/22 18:19	1
Nitrite as N	0.150		0.100	0.0293 mg/L			01/27/22 18:19	1
Sulfate	44.7		0.500	0.109 mg/L			01/27/22 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	282		4.00	4.00 mg/L			01/28/22 10:31	1
Bicarbonate Alkalinity as CaCO3	282		4.00	4.00 mg/L			01/28/22 10:31	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/28/22 10:31	1
Carbon dioxide	293			mg/L			01/31/22 10:21	1
Carbon Dioxide, Free	44.7			mg/L			01/31/22 10:21	1

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Client Sample Results

Client: Ensolum

Job ID: 880-10647-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-10647-1

Date Collected: 01/26/22 10:25

Matrix: Water

Date Received: 01/26/22 16:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.1	HF		SU			01/27/22 16:52	1
Temperature	18.8	HF		Celsius			01/27/22 16:52	1
Sulfide	<0.495	U	5.00	0.495 mg/L			01/28/22 17:39	1

Client Sample ID: MW-2

Lab Sample ID: 880-10647-2

Date Collected: 01/26/22 11:45

Matrix: Water

Date Received: 01/26/22 16:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0331		0.00100	0.000214 mg/L			01/27/22 17:25	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/27/22 17:25	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/27/22 17:25	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/27/22 17:25	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/27/22 17:25	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/27/22 17:25	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/27/22 17:25	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/27/22 17:25	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/27/22 17:25	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/27/22 17:25	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/27/22 17:25	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/27/22 17:25	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/27/22 17:25	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/27/22 17:25	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/27/22 17:25	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/27/22 17:25	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/27/22 17:25	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/27/22 17:25	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/27/22 17:25	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/27/22 17:25	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/27/22 17:25	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/27/22 17:25	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/27/22 17:25	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/27/22 17:25	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/27/22 17:25	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/27/22 17:25	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/27/22 17:25	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/27/22 17:25	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/27/22 17:25	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/27/22 17:25	1
Ethylbenzene	0.0137		0.00100	0.000515 mg/L			01/27/22 17:25	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/27/22 17:25	1
Isopropylbenzene	0.00555		0.00100	0.000161 mg/L			01/27/22 17:25	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/27/22 17:25	1
m,p-Xylenes	0.0755		0.0100	0.000330 mg/L			01/27/22 17:25	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/27/22 17:25	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/27/22 17:25	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/27/22 17:25	1
N-Propylbenzene	0.00112		0.00100	0.000179 mg/L			01/27/22 17:25	1
o-Xylene	0.00718		0.00100	0.000192 mg/L			01/27/22 17:25	1

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Client Sample Results

Client: Ensolum

Job ID: 880-10647-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-10647-2

Date Collected: 01/26/22 11:45

Matrix: Water

Date Received: 01/26/22 16:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Cymene (p-Isopropyltoluene)	0.000314	J	0.00100	0.000233	mg/L		01/27/22 17:25	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L		01/27/22 17:25	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		01/27/22 17:25	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		01/27/22 17:25	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		01/27/22 17:25	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		01/27/22 17:25	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		01/27/22 17:25	1
Toluene	0.00488		0.00100	0.000500	mg/L		01/27/22 17:25	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		01/27/22 17:25	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		01/27/22 17:25	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		01/27/22 17:25	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		01/27/22 17:25	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L		01/27/22 17:25	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L		01/27/22 17:25	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L		01/27/22 17:25	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L		01/27/22 17:25	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L		01/27/22 17:25	1
1,2,4-Trimethylbenzene	0.0145		0.00100	0.000252	mg/L		01/27/22 17:25	1
1,3,5-Trimethylbenzene	0.00380		0.00100	0.000279	mg/L		01/27/22 17:25	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L		01/27/22 17:25	1
Xylenes, Total	0.0827		0.0100	0.000330	mg/L		01/27/22 17:25	1
Total BTEX	0.134		0.0100	0.000214	mg/L		01/27/22 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		01/27/22 17:25	1
4-Bromofluorobenzene (Surr)	103		74 - 124		01/27/22 17:45	5
Dibromofluoromethane (Surr)	98		75 - 131		01/27/22 17:25	1
Dibromofluoromethane (Surr)	97		75 - 131		01/27/22 17:45	5
1,2-Dichloroethane-d4 (Surr)	112		63 - 144		01/27/22 17:25	1
1,2-Dichloroethane-d4 (Surr)	111		63 - 144		01/27/22 17:45	5
Toluene-d8 (Surr)	101		80 - 117		01/27/22 17:25	1
Toluene-d8 (Surr)	101		80 - 117		01/27/22 17:45	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.923	U	4.67	0.923	mg/L		01/28/22 10:56	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	<0.923	U	4.67	0.923	mg/L	01/28/22 09:45	01/28/22 15:38	1
Diesel Range Organics (Over C10-C28)	<0.923	U	4.67	0.923	mg/L	01/28/22 09:45	01/28/22 15:38	1
Oil Range Organics (Over C28-C36)	<0.891	U	4.67	0.891	mg/L	01/28/22 09:45	01/28/22 15:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 135			01/28/22 09:45	01/28/22 15:38	1
o-Terphenyl	73		70 - 135			01/28/22 09:45	01/28/22 15:38	1

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Client Sample Results

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

Job ID: 880-10647-1

Client Sample ID: MW-2
Date Collected: 01/26/22 11:45
Date Received: 01/26/22 16:30

Lab Sample ID: 880-10647-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		0.500	0.200	mg/L			01/27/22 19:20	1
Nitrate as N	0.592		0.100	0.0391	mg/L			01/27/22 19:20	1
Fluoride	<0.100	U	0.500	0.100	mg/L			01/27/22 19:20	1
Nitrite as N	0.608		0.100	0.0293	mg/L			01/27/22 19:20	1
Sulfate	100		0.500	0.109	mg/L			01/27/22 19:20	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1270		4.00	4.00	mg/L			01/28/22 10:48	1
Bicarbonate Alkalinity as CaCO3	1270		4.00	4.00	mg/L			01/28/22 10:48	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			01/28/22 10:48	1
Carbon dioxide	3140				mg/L			01/31/22 10:21	1
Carbon Dioxide, Free	2020				mg/L			01/31/22 10:21	1
pH	6.1	HF			SU			01/27/22 16:52	1
Temperature	18.8	HF			Celsius			01/27/22 16:52	1
Sulfide	<0.495	U	5.00	0.495	mg/L			01/28/22 17:39	1

Surrogate Summary

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

Job ID: 880-10647-1

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)
860-19767-G-1 MS	Matrix Spike	101	99	105	101
880-10647-1	MW-1	106	97	112	104
880-10647-2	MW-2	101	98	112	101
880-10647-2	MW-2	103	97	111	101
LCS 860-39057/3	Lab Control Sample	100	98	105	101
LCSD 860-39057/4	Lab Control Sample Dup	102	97	103	100
MB 860-39057/9	Method Blank	105	98	108	101
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-10647-1	MW-1	95	85
880-10647-1 MS	MW-1	107	98
880-10647-2	MW-2	81	73
LCS 860-39357/2-A	Lab Control Sample	103	88
LCSD 860-39357/3-A	Lab Control Sample Dup	98	86
MB 860-39357/1-A	Method Blank	95	84
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-10647-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-39057/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 39057

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			01/27/22 10:55	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			01/27/22 10:55	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			01/27/22 10:55	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			01/27/22 10:55	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			01/27/22 10:55	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			01/27/22 10:55	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			01/27/22 10:55	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			01/27/22 10:55	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			01/27/22 10:55	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			01/27/22 10:55	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			01/27/22 10:55	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			01/27/22 10:55	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			01/27/22 10:55	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			01/27/22 10:55	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			01/27/22 10:55	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			01/27/22 10:55	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			01/27/22 10:55	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			01/27/22 10:55	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			01/27/22 10:55	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			01/27/22 10:55	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			01/27/22 10:55	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			01/27/22 10:55	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			01/27/22 10:55	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			01/27/22 10:55	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			01/27/22 10:55	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			01/27/22 10:55	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			01/27/22 10:55	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			01/27/22 10:55	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			01/27/22 10:55	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			01/27/22 10:55	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			01/27/22 10:55	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			01/27/22 10:55	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			01/27/22 10:55	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			01/27/22 10:55	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			01/27/22 10:55	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			01/27/22 10:55	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			01/27/22 10:55	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			01/27/22 10:55	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			01/27/22 10:55	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			01/27/22 10:55	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			01/27/22 10:55	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			01/27/22 10:55	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			01/27/22 10:55	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			01/27/22 10:55	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			01/27/22 10:55	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			01/27/22 10:55	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			01/27/22 10:55	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			01/27/22 10:55	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-10647-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-39057/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 39057

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			01/27/22 10:55	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			01/27/22 10:55	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/27/22 10:55	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			01/27/22 10:55	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			01/27/22 10:55	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			01/27/22 10:55	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			01/27/22 10:55	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			01/27/22 10:55	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			01/27/22 10:55	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			01/27/22 10:55	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			01/27/22 10:55	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			01/27/22 10:55	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			01/27/22 10:55	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			01/27/22 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		74 - 124		01/27/22 10:55	1
Dibromofluoromethane (Surr)	98		75 - 131		01/27/22 10:55	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		01/27/22 10:55	1
Toluene-d8 (Surr)	101		80 - 117		01/27/22 10:55	1

Lab Sample ID: LCS 860-39057/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 39057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04900		mg/L		98	66 - 142
Bromobenzene	0.0500	0.05204		mg/L		104	75 - 125
Bromochloromethane	0.0500	0.04839		mg/L		97	60 - 140
Bromodichloromethane	0.0500	0.04650		mg/L		93	75 - 125
Bromoform	0.0500	0.03913		mg/L		78	75 - 125
Bromomethane	0.0500	0.03581		mg/L		72	60 - 140
2-Butanone	0.250	0.2360		mg/L		94	60 - 140
Carbon tetrachloride	0.0500	0.04742		mg/L		95	62 - 125
Chlorobenzene	0.0500	0.05121		mg/L		102	60 - 133
Chloroethane	0.0500	0.04320		mg/L		86	60 - 140
Chloroform	0.0500	0.05073		mg/L		101	70 - 130
Chloromethane	0.0500	0.04018		mg/L		80	60 - 140
2-Chlorotoluene	0.0500	0.05263		mg/L		105	73 - 125
4-Chlorotoluene	0.0500	0.05217		mg/L		104	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05023		mg/L		100	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04777		mg/L		96	74 - 125
Dibromochloromethane	0.0500	0.04435		mg/L		89	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04335		mg/L		87	59 - 125
1,2-Dibromoethane	0.0500	0.04837		mg/L		97	73 - 125
1,2-Dichlorobenzene	0.0500	0.05264		mg/L		105	75 - 125
1,3-Dichlorobenzene	0.0500	0.05285		mg/L		106	75 - 125
1,4-Dichlorobenzene	0.0500	0.05256		mg/L		105	75 - 125

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-10647-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-39057/3

Matrix: Water

Analysis Batch: 39057

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.04558		mg/L		91	70 - 130
1,1-Dichloroethane	0.0500	0.05008		mg/L		100	72 - 125
1,2-Dichloroethane	0.0500	0.05181		mg/L		104	68 - 127
1,1-Dichloroethene	0.0500	0.04612		mg/L		92	59 - 172
1,2-Dichloropropane	0.0500	0.05007		mg/L		100	74 - 125
1,3-Dichloropropane	0.0500	0.05000		mg/L		100	75 - 125
2,2-Dichloropropane	0.0500	0.05322		mg/L		106	75 - 125
1,1-Dichloropropene	0.0500	0.04882		mg/L		98	75 - 125
Ethylbenzene	0.0500	0.05111		mg/L		102	75 - 125
Hexachlorobutadiene	0.0500	0.05736		mg/L		115	75 - 125
Isopropylbenzene	0.0500	0.05156		mg/L		103	75 - 125
Methylene Chloride	0.0500	0.04260		mg/L		85	75 - 125
m,p-Xylenes	0.0500	0.05005		mg/L		100	75 - 125
MTBE	0.0500	0.04937		mg/L		99	65 - 135
Naphthalene	0.0500	0.05456		mg/L		109	70 - 130
n-Butylbenzene	0.0500	0.05435		mg/L		109	75 - 125
N-Propylbenzene	0.0500	0.05211		mg/L		104	75 - 125
o-Xylene	0.0500	0.05045		mg/L		101	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05271		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05327		mg/L		107	75 - 125
Styrene	0.0500	0.04952		mg/L		99	75 - 125
tert-Butylbenzene	0.0500	0.05204		mg/L		104	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04882		mg/L		98	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05139		mg/L		103	74 - 125
Tetrachloroethene	0.0500	0.05044		mg/L		101	71 - 125
Toluene	0.0500	0.04903		mg/L		98	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04491		mg/L		90	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04824		mg/L		96	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05676		mg/L		114	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05518		mg/L		110	75 - 135
1,1,1-Trichloroethane	0.0500	0.04968		mg/L		99	75 - 125
1,1,2-Trichloroethane	0.0500	0.04943		mg/L		99	75 - 127
Trichloroethene	0.0500	0.05011		mg/L		100	62 - 137
Trichlorofluoromethane	0.0500	0.05237		mg/L		105	60 - 140
1,2,3-Trichloropropane	0.0500	0.04985		mg/L		100	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05131		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05147		mg/L		103	60 - 140
Vinyl chloride	0.0500	0.04286		mg/L		86	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
Toluene-d8 (Surr)	101		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-10647-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-39057/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 39057

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Added	Result	Qualifier				Limits		
Benzene	0.0500	0.04857		mg/L		97	66 - 142	1	25
Bromobenzene	0.0500	0.05141		mg/L		103	75 - 125	1	25
Bromochloromethane	0.0500	0.04747		mg/L		95	60 - 140	2	25
Bromodichloromethane	0.0500	0.04582		mg/L		92	75 - 125	1	25
Bromoform	0.0500	0.03775		mg/L		75	75 - 125	4	25
Bromomethane	0.0500	0.03899		mg/L		78	60 - 140	8	25
2-Butanone	0.250	0.2250		mg/L		90	60 - 140	5	25
Carbon tetrachloride	0.0500	0.04659		mg/L		93	62 - 125	2	25
Chlorobenzene	0.0500	0.05001		mg/L		100	60 - 133	2	25
Chloroethane	0.0500	0.04146		mg/L		83	60 - 140	4	25
Chloroform	0.0500	0.04950		mg/L		99	70 - 130	2	25
Chloromethane	0.0500	0.03930		mg/L		79	60 - 140	2	25
2-Chlorotoluene	0.0500	0.05189		mg/L		104	73 - 125	1	25
4-Chlorotoluene	0.0500	0.05231		mg/L		105	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04906		mg/L		98	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.04780		mg/L		96	74 - 125	0	25
Dibromochloromethane	0.0500	0.04353		mg/L		87	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04072		mg/L		81	59 - 125	6	25
1,2-Dibromoethane	0.0500	0.04706		mg/L		94	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.05184		mg/L		104	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.05253		mg/L		105	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.05202		mg/L		104	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04353		mg/L		87	70 - 130	5	25
1,1-Dichloroethane	0.0500	0.04926		mg/L		99	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.05112		mg/L		102	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.04647		mg/L		93	59 - 172	1	25
1,2-Dichloropropane	0.0500	0.04967		mg/L		99	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04867		mg/L		97	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05187		mg/L		104	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04752		mg/L		95	75 - 125	3	25
Ethylbenzene	0.0500	0.05072		mg/L		101	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05783		mg/L		116	75 - 125	1	25
Isopropylbenzene	0.0500	0.05129		mg/L		103	75 - 125	1	25
Methylene Chloride	0.0500	0.04179		mg/L		84	75 - 125	2	25
m,p-Xylenes	0.0500	0.05027		mg/L		101	75 - 125	0	25
MTBE	0.0500	0.04703		mg/L		94	65 - 135	5	25
Naphthalene	0.0500	0.04923		mg/L		98	70 - 130	10	25
n-Butylbenzene	0.0500	0.05478		mg/L		110	75 - 125	1	25
N-Propylbenzene	0.0500	0.05310		mg/L		106	75 - 125	2	25
o-Xylene	0.0500	0.04978		mg/L		100	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05312		mg/L		106	75 - 125	1	25
sec-Butylbenzene	0.0500	0.05370		mg/L		107	75 - 125	1	25
Styrene	0.0500	0.04883		mg/L		98	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05292		mg/L		106	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.04683		mg/L		94	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.04820		mg/L		96	74 - 125	6	25
Tetrachloroethene	0.0500	0.05014		mg/L		100	71 - 125	1	25
Toluene	0.0500	0.04880		mg/L		98	59 - 139	0	25

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QC Sample Results

Client: Ensolum

Job ID: 880-10647-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-39057/4

Matrix: Water

Analysis Batch: 39057

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	0.04392		mg/L		88	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.04671		mg/L		93	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05178		mg/L		104	75 - 137	9	25
1,2,4-Trichlorobenzene	0.0500	0.05271		mg/L		105	75 - 135	5	25
1,1,1-Trichloroethane	0.0500	0.04920		mg/L		98	75 - 125	1	25
1,1,2-Trichloroethane	0.0500	0.04766		mg/L		95	75 - 127	4	25
Trichloroethene	0.0500	0.05040		mg/L		101	62 - 137	1	25
Trichlorofluoromethane	0.0500	0.05289		mg/L		106	60 - 140	1	25
1,2,3-Trichloropropane	0.0500	0.04493		mg/L		90	75 - 125	10	25
1,2,4-Trimethylbenzene	0.0500	0.05167		mg/L		103	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.05207		mg/L		104	60 - 140	1	25
Vinyl chloride	0.0500	0.04260		mg/L		85	60 - 140	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	100		80 - 117

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

Lab Sample ID: MB 860-39357/1-A

Matrix: Water

Analysis Batch: 39342

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39357

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		01/28/22 09:45	01/28/22 13:48	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		01/28/22 09:45	01/28/22 13:48	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		01/28/22 09:45	01/28/22 13:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	01/28/22 09:45	01/28/22 13:48	1
o-Terphenyl	84		70 - 135	01/28/22 09:45	01/28/22 13:48	1

Lab Sample ID: LCS 860-39357/2-A

Matrix: Water

Analysis Batch: 39342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	99.4	101.2		mg/L		102	70 - 135
Diesel Range Organics (Over C10-C28)	99.6	100.2		mg/L		101	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	103		70 - 135
o-Terphenyl	88		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-10647-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-39357/3-A

Matrix: Water

Analysis Batch: 39342

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39357

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			99.4	107.4		mg/L		108	70 - 135	6	35
Diesel Range Organics (Over C10-C28)			99.6	100.9		mg/L		101	70 - 135	1	35
Surrogate											
								</			

Lab Sample ID: 880-10647-1 MS

Matrix: Water

Analysis Batch: 39342

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Batch: 39357

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	89.6	107.8		mg/L		120	70 - 135		
Diesel Range Organics (Over C10-C28)	<0.898	U	89.8	105.9		mg/L		118	70 - 135		
Surrogate											
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	107		70 - 135								
o-Terphenyl	98		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-39140/3

Matrix: Water

Analysis Batch: 39140

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			01/27/22 16:30	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/27/22 16:30	1
Sulfate	<0.109	U	0.500	0.109 mg/L			01/27/22 16:30	1

Lab Sample ID: LCS 860-39140/4

Matrix: Water

Analysis Batch: 39140

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							Limits	
Chloride	10.0	9.939		mg/L		99	90 - 110	
Fluoride	10.0	10.04		mg/L		100	90 - 110	
Sulfate	10.0	9.934		mg/L		99	90 - 110	

Lab Sample ID: LCSD 860-39140/5

Matrix: Water

Analysis Batch: 39140

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			10.0	9.963		mg/L		100	90 - 110	0	20
Fluoride			10.0	10.10		mg/L		101	90 - 110	1	20

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QC Sample Results

Client: Ensolum

Job ID: 880-10647-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-39140/5

Matrix: Water

Analysis Batch: 39140

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	9.963		mg/L		100	90 - 110	0	20

Lab Sample ID: 880-10647-1 MS

Matrix: Water

Analysis Batch: 39140

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	RPD	RPD Limit
Chloride	142		10.0	152.2	4	mg/L		98	90 - 110		
Fluoride	0.548		10.0	10.55		mg/L		100	90 - 110		
Sulfate	44.7		10.0	54.50	4	mg/L		98	90 - 110		

Lab Sample ID: 880-10647-1 MSD

Matrix: Water

Analysis Batch: 39140

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	142		10.0	152.2	4	mg/L		99	90 - 110	0	20
Fluoride	0.548		10.0	10.57		mg/L		100	90 - 110	0	20
Sulfate	44.7		10.0	54.46	4	mg/L		98	90 - 110	0	20

Lab Sample ID: MB 860-39141/3

Matrix: Water

Analysis Batch: 39141

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			01/27/22 16:30	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/27/22 16:30	1

Lab Sample ID: LCS 860-39141/4

Matrix: Water

Analysis Batch: 39141

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	9.950		mg/L		100	80 - 120		
Nitrite as N	5.00	4.727		mg/L		95	80 - 120		

Lab Sample ID: LCSD 860-39141/5

Matrix: Water

Analysis Batch: 39141

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	9.986		mg/L		100	80 - 120	0	20
Nitrite as N	5.00	4.746		mg/L		95	80 - 120	0	20

Lab Sample ID: 880-10647-1 MS

Matrix: Water

Analysis Batch: 39141

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	RPD	RPD Limit
Nitrate as N	0.177		10.0	9.804		mg/L		96	80 - 120		

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-10647-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-10647-1 MS

Matrix: Water

Analysis Batch: 39141

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.150		2.50	2.462		mg/L		92	80 - 120

Lab Sample ID: 880-10647-1 MSD

Matrix: Water

Analysis Batch: 39141

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	0.177		10.0	9.797		mg/L		96	80 - 120	0	15
Nitrite as N	0.150		2.50	2.459		mg/L		92	80 - 120	0	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-39383/3

Matrix: Water

Analysis Batch: 39383

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			01/28/22 09:37	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/28/22 09:37	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/28/22 09:37	1

Lab Sample ID: LCS 860-39383/4

Matrix: Water

Analysis Batch: 39383

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	271.9		mg/L		109	85 - 115

Lab Sample ID: LCSD 860-39383/5

Matrix: Water

Analysis Batch: 39383

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	259.3		mg/L		104	85 - 115	5	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-39463/1

Matrix: Water

Analysis Batch: 39463

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			01/28/22 17:39	1

Lab Sample ID: LCS 860-39463/2

Matrix: Water

Analysis Batch: 39463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	51.4	47.20		mg/L		92	80 - 120

Eurofins Midland

QC Sample Results

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

Job ID: 880-10647-1

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

Lab Sample ID: LCSD 860-39463/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 39463											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide			51.4	47.00		mg/L		91	80 - 120	0	20

Lab Sample ID: 880-10647-1 MS				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 39463											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide	<0.495	U	51.4	46.00		mg/L		90	80 - 120		

Lab Sample ID: 880-10647-1 MSD				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 39463											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	<0.495	U	51.4	46.20		mg/L		90	80 - 120	0	20

QC Association Summary

Client: Ensolum

Job ID: 880-10647-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 39057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10647-1	MW-1	Total/NA	Water	8260C	
880-10647-2	MW-2	Total/NA	Water	8260C	
880-10647-2	MW-2	Total/NA	Water	8260C	
MB 860-39057/9	Method Blank	Total/NA	Water	8260C	
LCS 860-39057/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-39057/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 37733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10647-1	MW-1	Total/NA	Water	8015 NM	
880-10647-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 39342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10647-1	MW-1	Total/NA	Water	8015B NM	39357
880-10647-2	MW-2	Total/NA	Water	8015B NM	39357
MB 860-39357/1-A	Method Blank	Total/NA	Water	8015B NM	39357
LCS 860-39357/2-A	Lab Control Sample	Total/NA	Water	8015B NM	39357
LCSD 860-39357/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	39357
880-10647-1 MS	MW-1	Total/NA	Water	8015B NM	39357

Prep Batch: 39357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10647-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-10647-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-39357/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-39357/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-39357/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-10647-1 MS	MW-1	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 39140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10647-1	MW-1	Total/NA	Water	300.0	
880-10647-2	MW-2	Total/NA	Water	300.0	
MB 860-39140/3	Method Blank	Total/NA	Water	300.0	
LCS 860-39140/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-39140/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-10647-1 MS	MW-1	Total/NA	Water	300.0	
880-10647-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 39141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10647-1	MW-1	Total/NA	Water	300.0	
880-10647-2	MW-2	Total/NA	Water	300.0	
MB 860-39141/3	Method Blank	Total/NA	Water	300.0	
LCS 860-39141/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-39141/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-10647-1 MS	MW-1	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-10647-1

HPLC/IC (Continued)

Analysis Batch: 39141 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10647-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 39249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10647-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-10647-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 39383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10647-1	MW-1	Total/NA	Water	SM 2320B	
880-10647-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-39383/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-39383/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-39383/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 39463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10647-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-10647-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-39463/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-39463/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-39463/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-10647-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-10647-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 39581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10647-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-10647-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

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

Job ID: 880-10647-1

Client Sample ID: MW-1
Date Collected: 01/26/22 10:25
Date Received: 01/26/22 16:30

Lab Sample ID: 880-10647-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	39057	01/27/22 17:04	NA	XEN STF
Total/NA	Analysis	8015 NM		1	37733	01/28/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			39357	01/28/22 09:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	39342	01/28/22 14:57	IS	XEN STF
Total/NA	Analysis	300.0		1	39140	01/27/22 18:19	WP	XEN STF
Total/NA	Analysis	300.0		1	39141	01/27/22 18:19	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	39383	01/28/22 10:31	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	39581	01/31/22 10:21	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	39249	01/27/22 16:52	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	39463	01/28/22 17:39	YVD	XEN STF

Client Sample ID: MW-2
Date Collected: 01/26/22 11:45
Date Received: 01/26/22 16:30

Lab Sample ID: 880-10647-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	39057	01/27/22 17:25	NA	XEN STF
Total/NA	Analysis	8260C		5	39057	01/27/22 17:45	NA	XEN STF
Total/NA	Analysis	8015 NM		1	37733	01/28/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			39357	01/28/22 09:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	39342	01/28/22 15:38	IS	XEN STF
Total/NA	Analysis	300.0		1	39140	01/27/22 19:20	WP	XEN STF
Total/NA	Analysis	300.0		1	39141	01/27/22 19:20	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	39383	01/28/22 10:48	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	39581	01/31/22 10:21	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	39249	01/27/22 16:52	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	39463	01/28/22 17:39	YVD	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: 880-10647-1

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)
8260C		Water	Total BTEX
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: 880-10647-1

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: 880-10647-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10647-1	MW-1	Water	01/26/22 10:25	01/26/22 16:30
880-10647-2	MW-2	Water	01/26/22 11:45	01/26/22 16:30

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



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

Chain of Custody

Work Order No: 10647

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

Program: UST/PST ☐ PPR ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project: <u>New Mexico</u>	
Reporting Level II ☐ Level III ☐ PST/UST ☐ IRRP ☐ 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:	Aaron Marquez	Due Date			

SAMPLE RECEIPT	Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	0 / 2	Thermometer ID	148	
Received Intact:	Yes ☒ No ☐	Correction Factor:	10	
Cooler Custody Seals:	Yes ☐ No ☒ (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Dissolved Carbon Dioxide 4500 CO2 c	Dissovled Sulfide SW-846 #376.2	VOC SW-846 #8260	TPH EPA Method #8015	Chloride EPA Method #846 300	pH EPA SW-846 Method 150.1	Sample Comments
MW-1	GW	1-26-22	10:25	75'	7	X	X	X	X	X	X	24 Hr
MW-2	GW	1-26-22	11:45	85'	7	X	X	X	X	X	X	

CUSTODY SEAL

Date 1-26-22
Signature



880-10647 Chain of Custody



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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1-26-22			2
		10:27			4
					6

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-10647-1

Login Number: 10647

List Number: 1

Creator: Teel, Brianna

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: 880-10647-1

Login Number: 10647

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 01/27/22 11:56 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

January 07, 2022

Ensolum, LLC

Sample Delivery Group: L1447570
Samples Received: 01/04/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
705 W. Wadley Ave, Ste 210
Midland, TX 79705



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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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LEVEY WELL L1447570-01 Air

Collected by Aaron Marquez
Collected date/time 01/03/22 07:56
Received date/time 01/04/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1798367	100	01/06/22 02:03	01/06/22 02:03	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1798887	2000	01/06/22 14:08	01/06/22 14:08	MBF	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1799023	8000	01/07/22 12:24	01/07/22 12:24	MBF	Mt. Juliet, TN

1Cp

2Tc

3Ss

LEVEY WELL L1447570-02 Air

Collected by Aaron Marquez
Collected date/time 01/03/22 08:23
Received date/time 01/04/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1798289	20	01/05/22 11:42	01/05/22 11:42	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1798887	100	01/06/22 14:46	01/06/22 14:46	MBF	Mt. Juliet, TN

4Cn

5Tr

6Sr

LEVEY WELL L1447570-03 Air

Collected by Aaron Marquez
Collected date/time 01/03/22 09:04
Received date/time 01/04/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1798289	5	01/05/22 12:10	01/05/22 12:10	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1798887	100	01/06/22 15:23	01/06/22 15:23	MBF	Mt. Juliet, TN

7Qc

8Gl

9Al

LEVEY WELL L1447570-04 Air

Collected by Aaron Marquez
Collected date/time 01/03/22 10:31
Received date/time 01/04/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1798289	20	01/05/22 12:39	01/05/22 12:39	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1798887	200	01/06/22 16:02	01/06/22 16:02	MBF	Mt. Juliet, TN

10Sc

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



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ 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.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 01/07/2022 13:34					
Project Name: Levey Well		Laboratory Job Number: L1447570-01, 02, 03 and 04					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1798289, WG1798367, WG1798887 and WG1799023					
#1	A2	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 01/07/2022 13:34				
Project Name: Levey Well			Laboratory Job Number: L1447570-01, 02, 03 and 04				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1798289, WG1798367, WG1798887 and WG1799023				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 01/07/2022 13:34	
Project Name: Levey Well		Laboratory Job Number: L1447570-01, 02, 03 and 04	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1798289, WG1798367, WG1798887 and WG1799023	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 01/03/22 07:56

L1447570

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	125	297	ND	ND		100	WG1798367
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG1798367
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG1798367
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG1798367
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG1798367
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG1798367
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG1798367
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG1798367
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG1798367
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG1798367
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG1798367
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG1798367
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG1798367
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG1798367
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG1798367
Cyclohexane	110-82-7	84.20	400	1380	31500	108000		2000	WG1798887
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG1798367
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG1798367
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG1798367
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG1798367
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG1798367
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG1798367
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG1798367
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG1798367
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG1798367
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG1798367
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG1798367
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG1798367
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG1798367
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG1798367
Ethanol	64-17-5	46.10	125	236	634	1200		100	WG1798367
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG1798367
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG1798367
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG1798367
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG1798367
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG1798367
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG1798367
Heptane	142-82-5	100	400	1640	57100	234000		2000	WG1798887
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG1798367
n-Hexane	110-54-3	86.20	5040	17800	172000	606000		8000	WG1799023
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG1798367
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG1798367
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG1798367
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG1798367
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG1798367
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG1798367
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG1798367
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG1798367
2-Propanol	67-63-0	60.10	125	307	2690	6610		100	WG1798367
Propene	115-07-1	42.10	125	215	ND	ND		100	WG1798367
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG1798367
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG1798367
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG1798367
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG1798367
Toluene	108-88-3	92.10	50.0	188	ND	ND		100	WG1798367
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG1798367



Collected date/time: 01/03/22 07:56

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	20.0	109	ND	ND		100	WG1798367
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG1798367
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG1798367
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG1798367
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG1798367
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG1798367
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG1798367
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG1798367
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG1798367
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG1798367
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG1798367
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	1650000	972000	4020000		2000	WG1798887
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		90.7				WG1798367
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		104				WG1798887
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.0				WG1799023

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 01/03/22 08:23

L1447570

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	WG1798289
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1798289
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1798289
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1798289
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1798289
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1798289
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1798289
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1798289
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1798289
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1798289
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1798289
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1798289
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1798289
Chloromethane	74-87-3	50.50	4.00	8.26	197	407		20	WG1798289
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1798289
Cyclohexane	110-82-7	84.20	4.00	13.8	1150	3960		20	WG1798289
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1798289
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1798289
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1798289
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1798289
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1798289
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1798289
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1798289
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1798289
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1798289
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1798289
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1798289
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1798289
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1798289
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1798289
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1798289
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1798289
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG1798289
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1798289
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1798289
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1798289
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1798289
Heptane	142-82-5	100	20.0	81.8	3140	12800		100	WG1798887
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1798289
n-Hexane	110-54-3	86.20	63.0	222	8000	28200		100	WG1798887
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1798289
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1798289
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1798289
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	ND	ND		20	WG1798289
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1798289
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1798289
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1798289
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1798289
2-Propanol	67-63-0	60.10	25.0	61.5	25.6	62.9		20	WG1798289
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1798289
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1798289
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1798289
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1798289
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1798289
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1798289
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1798289



Collected date/time: 01/03/22 08:23

L1447570

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	WG1798289
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1798289
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1798289
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG1798289
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	ND	ND		20	WG1798289
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1798289
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1798289
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1798289
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1798289
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1798289
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1798289
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	42800	177000		20	WG1798289
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.2				WG1798289
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		103				WG1798887

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 01/03/22 09:04

L1447570

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	6.25	14.9	ND	ND		5	WG1798289
Allyl chloride	107-05-1	76.53	1.00	3.13	ND	ND		5	WG1798289
Benzene	71-43-2	78.10	1.00	3.19	ND	ND		5	WG1798289
Benzyl Chloride	100-44-7	127	1.00	5.19	ND	ND		5	WG1798289
Bromodichloromethane	75-27-4	164	1.00	6.71	ND	ND		5	WG1798289
Bromoform	75-25-2	253	3.00	31.0	ND	ND		5	WG1798289
Bromomethane	74-83-9	94.90	1.00	3.88	ND	ND		5	WG1798289
1,3-Butadiene	106-99-0	54.10	10.0	22.1	ND	ND		5	WG1798289
Carbon disulfide	75-15-0	76.10	1.00	3.11	ND	ND		5	WG1798289
Carbon tetrachloride	56-23-5	154	1.00	6.30	ND	ND		5	WG1798289
Chlorobenzene	108-90-7	113	1.00	4.62	ND	ND		5	WG1798289
Chloroethane	75-00-3	64.50	1.00	2.64	ND	ND		5	WG1798289
Chloroform	67-66-3	119	1.00	4.87	ND	ND		5	WG1798289
Chloromethane	74-87-3	50.50	1.00	2.07	ND	ND		5	WG1798289
2-Chlorotoluene	95-49-8	126	1.00	5.15	ND	ND		5	WG1798289
Cyclohexane	110-82-7	84.20	20.0	68.9	651	2240		100	WG1798887
Dibromochloromethane	124-48-1	208	1.00	8.51	ND	ND		5	WG1798289
1,2-Dibromoethane	106-93-4	188	1.00	7.69	ND	ND		5	WG1798289
1,2-Dichlorobenzene	95-50-1	147	1.00	6.01	ND	ND		5	WG1798289
1,3-Dichlorobenzene	541-73-1	147	1.00	6.01	ND	ND		5	WG1798289
1,4-Dichlorobenzene	106-46-7	147	1.00	6.01	ND	ND		5	WG1798289
1,2-Dichloroethane	107-06-2	99	1.00	4.05	ND	ND		5	WG1798289
1,1-Dichloroethane	75-34-3	98	1.00	4.01	ND	ND		5	WG1798289
1,1-Dichloroethene	75-35-4	96.90	1.00	3.96	ND	ND		5	WG1798289
cis-1,2-Dichloroethene	156-59-2	96.90	1.00	3.96	ND	ND		5	WG1798289
trans-1,2-Dichloroethene	156-60-5	96.90	1.00	3.96	ND	ND		5	WG1798289
1,2-Dichloropropane	78-87-5	113	1.00	4.62	ND	ND		5	WG1798289
cis-1,3-Dichloropropene	10061-01-5	111	1.00	4.54	ND	ND		5	WG1798289
trans-1,3-Dichloropropene	10061-02-6	111	1.00	4.54	ND	ND		5	WG1798289
1,4-Dioxane	123-91-1	88.10	1.00	3.60	ND	ND		5	WG1798289
Ethanol	64-17-5	46.10	6.25	11.8	ND	ND		5	WG1798289
Ethylbenzene	100-41-4	106	1.00	4.34	ND	ND		5	WG1798289
4-Ethyltoluene	622-96-8	120	1.00	4.91	ND	ND		5	WG1798289
Trichlorofluoromethane	75-69-4	137.40	1.00	5.62	ND	ND		5	WG1798289
Dichlorodifluoromethane	75-71-8	120.92	1.00	4.95	ND	ND		5	WG1798289
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.00	7.66	ND	ND		5	WG1798289
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.00	6.99	ND	ND		5	WG1798289
Heptane	142-82-5	100	20.0	81.8	1500	6130		100	WG1798887
Hexachloro-1,3-butadiene	87-68-3	261	3.15	33.6	ND	ND		5	WG1798289
n-Hexane	110-54-3	86.20	63.0	222	5050	17800		100	WG1798887
Isopropylbenzene	98-82-8	120.20	1.00	4.92	ND	ND		5	WG1798289
Methylene Chloride	75-09-2	84.90	1.00	3.47	ND	ND		5	WG1798289
Methyl Butyl Ketone	591-78-6	100	6.25	25.6	ND	ND		5	WG1798289
2-Butanone (MEK)	78-93-3	72.10	6.25	18.4	ND	ND		5	WG1798289
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	6.25	25.6	ND	ND		5	WG1798289
Methyl methacrylate	80-62-6	100.12	1.00	4.09	ND	ND		5	WG1798289
MTBE	1634-04-4	88.10	1.00	3.60	ND	ND		5	WG1798289
Naphthalene	91-20-3	128	3.15	16.5	ND	ND		5	WG1798289
2-Propanol	67-63-0	60.10	6.25	15.4	7.87	19.3		5	WG1798289
Propene	115-07-1	42.10	6.25	10.8	ND	ND		5	WG1798289
Styrene	100-42-5	104	1.00	4.25	ND	ND		5	WG1798289
1,1,2,2-Tetrachloroethane	79-34-5	168	1.00	6.87	ND	ND		5	WG1798289
Tetrachloroethylene	127-18-4	166	1.00	6.79	ND	ND		5	WG1798289
Tetrahydrofuran	109-99-9	72.10	1.00	2.95	ND	ND		5	WG1798289
Toluene	108-88-3	92.10	2.50	9.42	ND	ND		5	WG1798289
1,2,4-Trichlorobenzene	120-82-1	181	3.15	23.3	ND	ND		5	WG1798289

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/03/22 09:04

L1447570

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	1.00	5.44	ND	ND		5	WG1798289
1,1,2-Trichloroethane	79-00-5	133	1.00	5.44	ND	ND		5	WG1798289
Trichloroethylene	79-01-6	131	1.00	5.36	ND	ND		5	WG1798289
1,2,4-Trimethylbenzene	95-63-6	120	1.00	4.91	1.68	8.25		5	WG1798289
1,3,5-Trimethylbenzene	108-67-8	120	1.00	4.91	1.15	5.64		5	WG1798289
2,2,4-Trimethylpentane	540-84-1	114.22	1.00	4.67	ND	ND		5	WG1798289
Vinyl chloride	75-01-4	62.50	1.00	2.56	ND	ND		5	WG1798289
Vinyl Bromide	593-60-2	106.95	1.00	4.37	ND	ND		5	WG1798289
Vinyl acetate	108-05-4	86.10	1.00	3.52	ND	ND		5	WG1798289
m&p-Xylene	1330-20-7	106	2.00	8.67	ND	ND		5	WG1798289
o-Xylene	95-47-6	106	1.00	4.34	ND	ND		5	WG1798289
TPH (GC/MS) Low Fraction	8006-61-9	101	1000	4130	24500	101000		5	WG1798289
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.1				WG1798289
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		103				WG1798887

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/03/22 10:31

L1447570

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	WG1798289
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1798289
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1798289
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1798289
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1798289
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1798289
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1798289
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1798289
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1798289
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1798289
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1798289
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1798289
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1798289
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1798289
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1798289
Cyclohexane	110-82-7	84.20	4.00	13.8	1330	4580		20	WG1798289
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1798289
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1798289
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1798289
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1798289
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1798289
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1798289
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1798289
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1798289
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1798289
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1798289
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1798289
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1798289
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1798289
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1798289
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1798289
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1798289
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG1798289
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1798289
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1798289
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1798289
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1798289
Heptane	142-82-5	100	40.0	164	1390	5690		200	WG1798887
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1798289
n-Hexane	110-54-3	86.20	126	444	4480	15800		200	WG1798887
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1798289
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1798289
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1798289
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	ND	ND		20	WG1798289
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1798289
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1798289
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1798289
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1798289
2-Propanol	67-63-0	60.10	25.0	61.5	35.6	87.5		20	WG1798289
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1798289
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1798289
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1798289
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1798289
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1798289
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1798289
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1798289

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/03/22 10:31

L1447570

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	WG1798289
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1798289
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1798289
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	4.62	22.7		20	WG1798289
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	ND	ND		20	WG1798289
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1798289
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1798289
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1798289
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1798289
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1798289
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1798289
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	45400	188000		20	WG1798289
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.2				WG1798289
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.9				WG1798887

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3747694-3 01/05/22 10:12

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
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

L1447570-02,03,04

Method Blank (MB)

(MB) R3747694-3 01/05/22 10:12

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	0.104	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
Ethanol	U		0.265	1.25
TPH (GC/MS) Low Fraction	57.9	U	39.7	200
(S) 1,4-Bromofluorobenzene	91.3			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3747694-1 01/05/22 09:10 • (LCSD) R3747694-2 01/05/22 09:42

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.89	3.68	104	98.1	55.0-148			5.55	25
Propene	3.75	4.02	3.84	107	102	64.0-144			4.58	25
Dichlorodifluoromethane	3.75	3.80	3.76	101	100	64.0-139			1.06	25
1,2-Dichlorotetrafluoroethane	3.75	3.84	3.78	102	101	70.0-130			1.57	25
Chloromethane	3.75	3.78	3.76	101	100	70.0-130			0.531	25
Vinyl chloride	3.75	3.81	3.81	102	102	70.0-130			0.000	25

Volatile Organic Compounds (MS) by Method TO-15

L1447570-02.03.04

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

(LCS) R3747694-1 01/05/22 09:10 • (LCSD) R3747694-2 01/05/22 09:42

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	3.55	3.52	94.7	93.9	70.0-130			0.849	25
Bromomethane	3.75	3.96	3.98	106	106	70.0-130			0.504	25
Chloroethane	3.75	3.80	3.80	101	101	70.0-130			0.000	25
Trichlorofluoromethane	3.75	3.87	3.81	103	102	70.0-130			1.56	25
1,1,2-Trichlorotrifluoroethane	3.75	3.54	3.48	94.4	92.8	70.0-130			1.71	25
1,1-Dichloroethene	3.75	3.78	3.68	101	98.1	70.0-130			2.68	25
1,1-Dichloroethane	3.75	3.87	3.77	103	101	70.0-130			2.62	25
Acetone	3.75	4.32	4.28	115	114	70.0-130			0.930	25
2-Propanol	3.75	3.67	3.69	97.9	98.4	70.0-139			0.543	25
Carbon disulfide	3.75	3.42	3.35	91.2	89.3	70.0-130			2.07	25
Methylene Chloride	3.75	3.62	3.56	96.5	94.9	70.0-130			1.67	25
MTBE	3.75	3.95	3.87	105	103	70.0-130			2.05	25
trans-1,2-Dichloroethene	3.75	3.42	3.34	91.2	89.1	70.0-130			2.37	25
Vinyl acetate	3.75	4.00	3.87	107	103	70.0-130			3.30	25
Methyl Ethyl Ketone	3.75	4.02	4.01	107	107	70.0-130			0.249	25
cis-1,2-Dichloroethene	3.75	3.81	3.78	102	101	70.0-130			0.791	25
Chloroform	3.75	3.80	3.76	101	100	70.0-130			1.06	25
Cyclohexane	3.75	3.92	3.90	105	104	70.0-130			0.512	25
1,1,1-Trichloroethane	3.75	3.88	3.86	103	103	70.0-130			0.517	25
Carbon tetrachloride	3.75	3.80	3.75	101	100	70.0-130			1.32	25
Benzene	3.75	3.92	3.91	105	104	70.0-130			0.255	25
1,2-Dichloroethane	3.75	3.88	3.85	103	103	70.0-130			0.776	25
Trichloroethylene	3.75	3.86	3.81	103	102	70.0-130			1.30	25
1,2-Dichloropropane	3.75	3.89	3.83	104	102	70.0-130			1.55	25
1,4-Dioxane	3.75	3.91	3.83	104	102	70.0-140			2.07	25
Bromodichloromethane	3.75	3.79	3.74	101	99.7	70.0-130			1.33	25
cis-1,3-Dichloropropene	3.75	3.83	3.80	102	101	70.0-130			0.786	25
4-Methyl-2-pentanone (MIBK)	3.75	3.57	3.55	95.2	94.7	70.0-139			0.562	25
Toluene	3.75	3.75	3.73	100	99.5	70.0-130			0.535	25
trans-1,3-Dichloropropene	3.75	3.84	3.91	102	104	70.0-130			1.81	25
1,1,2-Trichloroethane	3.75	3.95	3.94	105	105	70.0-130			0.253	25
Tetrachloroethylene	3.75	4.04	3.93	108	105	70.0-130			2.76	25
Methyl Butyl Ketone	3.75	3.71	3.62	98.9	96.5	70.0-149			2.46	25
Dibromochloromethane	3.75	3.82	3.80	102	101	70.0-130			0.525	25
1,2-Dibromoethane	3.75	3.82	3.82	102	102	70.0-130			0.000	25
Chlorobenzene	3.75	3.91	3.82	104	102	70.0-130			2.33	25
Ethylbenzene	3.75	3.96	3.95	106	105	70.0-130			0.253	25
m&p-Xylene	7.50	7.63	7.56	102	101	70.0-130			0.922	25
o-Xylene	3.75	3.89	3.91	104	104	70.0-130			0.513	25
Styrene	3.75	4.14	4.22	110	113	70.0-130			1.91	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3747694-1 01/05/22 09:10 • (LCSD) R3747694-2 01/05/22 09:42

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	3.93	3.92	105	105	70.0-130			0.255	25
1,1,2,2-Tetrachloroethane	3.75	3.81	3.84	102	102	70.0-130			0.784	25
4-Ethyltoluene	3.75	4.12	4.07	110	109	70.0-130			1.22	25
1,3,5-Trimethylbenzene	3.75	4.01	3.93	107	105	70.0-130			2.02	25
1,2,4-Trimethylbenzene	3.75	3.92	3.90	105	104	70.0-130			0.512	25
1,3-Dichlorobenzene	3.75	4.20	4.26	112	114	70.0-130			1.42	25
1,4-Dichlorobenzene	3.75	4.23	4.24	113	113	70.0-130			0.236	25
Benzyl Chloride	3.75	3.79	3.82	101	102	70.0-152			0.788	25
1,2-Dichlorobenzene	3.75	4.18	4.14	111	110	70.0-130			0.962	25
1,2,4-Trichlorobenzene	3.75	5.69	5.60	152	149	70.0-160			1.59	25
Hexachloro-1,3-butadiene	3.75	4.23	4.17	113	111	70.0-151			1.43	25
Naphthalene	3.75	4.97	4.84	133	129	70.0-159			2.65	25
TPH (GC/MS) Low Fraction	203	245	245	121	121	70.0-130			0.000	25
Allyl Chloride	3.75	3.60	3.56	96.0	94.9	70.0-130			1.12	25
2-Chlorotoluene	3.75	3.98	3.98	106	106	70.0-130			0.000	25
Methyl Methacrylate	3.75	3.94	3.87	105	103	70.0-130			1.79	25
Tetrahydrofuran	3.75	3.71	3.73	98.9	99.5	70.0-137			0.538	25
2,2,4-Trimethylpentane	3.75	3.73	3.66	99.5	97.6	70.0-130			1.89	25
Vinyl Bromide	3.75	3.98	3.86	106	103	70.0-130			3.06	25
Isopropylbenzene	3.75	3.96	4.00	106	107	70.0-130			1.01	25
(S) 1,4-Bromofluorobenzene				97.6	99.7	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3747711-3 01/05/22 10:17

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
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
2-Butanone (MEK)	U		0.0814	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1447570-01

Method Blank (MB)

(MB) R3747711-3 01/05/22 10:17

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
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	0.214	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
Ethanol	U		0.265	1.25
(S) 1,4-Bromofluorobenzene	86.8			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3747711-1 01/05/22 08:50 • (LCSD) R3747711-2 01/05/22 09:34

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	4.07	3.70	109	98.7	55.0-148			9.52	25
Propene	3.75	3.79	3.57	101	95.2	64.0-144			5.98	25
Dichlorodifluoromethane	3.75	3.40	3.21	90.7	85.6	64.0-139			5.75	25
1,2-Dichlorotetrafluoroethane	3.75	4.18	3.93	111	105	70.0-130			6.17	25
Chloromethane	3.75	3.85	3.67	103	97.9	70.0-130			4.79	25
Vinyl chloride	3.75	3.93	3.77	105	101	70.0-130			4.16	25
1,3-Butadiene	3.75	3.73	3.55	99.5	94.7	70.0-130			4.95	25
Bromomethane	3.75	4.15	3.83	111	102	70.0-130			8.02	25

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

(LCS) R3747711-1 01/05/22 08:50 • (LCSD) R3747711-2 01/05/22 09:34

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroethane	3.75	3.97	3.85	106	103	70.0-130			3.07	25
Trichlorofluoromethane	3.75	4.33	4.07	115	109	70.0-130			6.19	25
1,1,2-Trichlorotrifluoroethane	3.75	4.31	4.12	115	110	70.0-130			4.51	25
1,1-Dichloroethene	3.75	4.04	3.91	108	104	70.0-130			3.27	25
1,1-Dichloroethane	3.75	4.11	4.04	110	108	70.0-130			1.72	25
Acetone	3.75	4.28	4.18	114	111	70.0-130			2.36	25
2-Propanol	3.75	3.94	3.94	105	105	70.0-139			0.000	25
Carbon disulfide	3.75	4.01	4.46	107	119	70.0-130			10.6	25
Methylene Chloride	3.75	3.94	3.93	105	105	70.0-130			0.254	25
MTBE	3.75	4.17	4.06	111	108	70.0-130			2.67	25
trans-1,2-Dichloroethene	3.75	4.15	4.19	111	112	70.0-130			0.959	25
Vinyl acetate	3.75	3.90	3.92	104	105	70.0-130			0.512	25
Methyl Ethyl Ketone	3.75	4.11	4.16	110	111	70.0-130			1.21	25
cis-1,2-Dichloroethene	3.75	4.10	4.18	109	111	70.0-130			1.93	25
Chloroform	3.75	4.24	4.12	113	110	70.0-130			2.87	25
1,1,1-Trichloroethane	3.75	4.22	4.20	113	112	70.0-130			0.475	25
Carbon tetrachloride	3.75	4.35	4.31	116	115	70.0-130			0.924	25
Benzene	3.75	4.22	4.17	113	111	70.0-130			1.19	25
1,2-Dichloroethane	3.75	4.07	4.07	109	109	70.0-130			0.000	25
Trichloroethylene	3.75	4.31	4.34	115	116	70.0-130			0.694	25
1,2-Dichloropropane	3.75	4.07	4.12	109	110	70.0-130			1.22	25
1,4-Dioxane	3.75	4.14	4.24	110	113	70.0-140			2.39	25
Bromodichloromethane	3.75	4.30	4.21	115	112	70.0-130			2.12	25
cis-1,3-Dichloropropene	3.75	4.23	4.16	113	111	70.0-130			1.67	25
4-Methyl-2-pentanone (MIBK)	3.75	4.01	4.01	107	107	70.0-139			0.000	25
Toluene	3.75	4.27	4.22	114	113	70.0-130			1.18	25
trans-1,3-Dichloropropene	3.75	4.16	4.18	111	111	70.0-130			0.480	25
1,1,2-Trichloroethane	3.75	4.31	4.25	115	113	70.0-130			1.40	25
Tetrachloroethylene	3.75	4.55	4.48	121	119	70.0-130			1.55	25
Methyl Butyl Ketone	3.75	4.17	4.12	111	110	70.0-149			1.21	25
Dibromochloromethane	3.75	4.53	4.44	121	118	70.0-130			2.01	25
1,2-Dibromoethane	3.75	4.43	4.28	118	114	70.0-130			3.44	25
Chlorobenzene	3.75	4.39	4.28	117	114	70.0-130			2.54	25
Ethylbenzene	3.75	4.15	4.33	111	115	70.0-130			4.25	25
m&p-Xylene	7.50	8.43	8.64	112	115	70.0-130			2.46	25
o-Xylene	3.75	4.19	4.21	112	112	70.0-130			0.476	25
Styrene	3.75	4.28	4.31	114	115	70.0-130			0.698	25
Bromoform	3.75	4.52	4.32	121	115	70.0-130			4.52	25
1,1,2,2-Tetrachloroethane	3.75	3.91	3.84	104	102	70.0-130			1.81	25
4-Ethyltoluene	3.75	3.96	3.90	106	104	70.0-130			1.53	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3747711-1 01/05/22 08:50 • (LCSD) R3747711-2 01/05/22 09:34

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3,5-Trimethylbenzene	3.75	4.01	3.87	107	103	70.0-130			3.55	25
1,2,4-Trimethylbenzene	3.75	3.77	3.85	101	103	70.0-130			2.10	25
1,3-Dichlorobenzene	3.75	3.99	3.90	106	104	70.0-130			2.28	25
1,4-Dichlorobenzene	3.75	3.94	3.94	105	105	70.0-130			0.000	25
Benzyl Chloride	3.75	3.69	3.57	98.4	95.2	70.0-152			3.31	25
1,2-Dichlorobenzene	3.75	3.89	3.75	104	100	70.0-130			3.66	25
1,2,4-Trichlorobenzene	3.75	4.30	4.27	115	114	70.0-160			0.700	25
Hexachloro-1,3-butadiene	3.75	4.64	4.42	124	118	70.0-151			4.86	25
Naphthalene	3.75	4.11	4.00	110	107	70.0-159			2.71	25
Allyl Chloride	3.75	4.23	4.22	113	113	70.0-130			0.237	25
2-Chlorotoluene	3.75	3.91	3.86	104	103	70.0-130			1.29	25
Methyl Methacrylate	3.75	4.30	4.13	115	110	70.0-130			4.03	25
Tetrahydrofuran	3.75	3.91	4.04	104	108	70.0-137			3.27	25
2,2,4-Trimethylpentane	3.75	4.00	4.06	107	108	70.0-130			1.49	25
Vinyl Bromide	3.75	4.33	4.04	115	108	70.0-130			6.93	25
Isopropylbenzene	3.75	4.07	3.97	109	106	70.0-130			2.49	25
(S) 1,4-Bromofluorobenzene				91.9	89.8	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1447570-01,02,03,04](#)

Method Blank (MB)

(MB) R3748001-3 01/06/22 10:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	101			60.0-140

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

(LCS) R3748001-1 01/06/22 09:03 • (LCSD) R3748001-2 01/06/22 09:45

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.02	4.01	107	107	70.0-130			0.249	25
Cyclohexane	3.75	3.91	3.87	104	103	70.0-130			1.03	25
Heptane	3.75	3.71	3.79	98.9	101	70.0-130			2.13	25
TPH (GC/MS) Low Fraction	203	212	211	104	104	70.0-130			0.473	25
(S) 1,4-Bromofluorobenzene				104	103	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3748043-3 01/07/22 11:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	101			60.0-140

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

(LCS) R3748043-1 01/07/22 10:26 • (LCSD) R3748043-2 01/07/22 11:07

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.03	4.01	107	107	70.0-130			0.498	25
(S) 1,4-Bromofluorobenzene				103	103	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

JThe identification of the analyte is acceptable; the reported value is an estimate.

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

Released to Imaging: 2/29/2024 4:12:37 PM



ANALYTICAL REPORT

January 12, 2022

Ensolum, LLC

Sample Delivery Group: L1448920
Samples Received: 01/08/2022
Project Number: 03B1417001
Description: Level Well
Site: 03B1417001
Report To: Beaux Jennings
705 W. Wadley Ave, Ste 210
Midland, TX 79705

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 L1448920-01	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 L1448920-01 Air

Collected by Aaron Marquez
Collected date/time 01/06/22 00:00
Received date/time 01/08/22 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1799756	100	01/10/22 23:17	01/10/22 23:17	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1800392	1000	01/11/22 19:32	01/11/22 19:32	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

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: 01/12/2022 08:47				
Project Name: Level Well			Laboratory Job Number: L1448920-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1799756 and WG1800392				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 01/12/2022 08:47				
Project Name: Level Well			Laboratory Job Number: L1448920-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1799756 and WG1800392				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 01/12/2022 08:47	
Project Name: Level Well		Laboratory Job Number: L1448920-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1799756 and WG1800392	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 01/06/22 00:00

L1448920

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	125	297	ND	ND		100	WG1799756
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG1799756
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG1799756
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG1799756
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG1799756
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG1799756
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG1799756
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG1799756
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG1799756
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG1799756
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG1799756
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG1799756
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG1799756
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG1799756
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG1799756
Cyclohexane	110-82-7	84.20	20.0	68.9	3080	10600		100	WG1799756
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG1799756
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG1799756
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG1799756
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG1799756
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG1799756
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG1799756
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG1799756
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG1799756
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG1799756
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG1799756
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG1799756
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG1799756
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG1799756
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG1799756
Ethanol	64-17-5	46.10	125	236	ND	ND		100	WG1799756
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG1799756
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG1799756
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG1799756
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG1799756
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG1799756
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG1799756
Heptane	142-82-5	100	20.0	81.8	5020	20500		100	WG1799756
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG1799756
n-Hexane	110-54-3	86.20	630	2220	37000	130000		1000	WG1800392
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG1799756
Methylene Chloride	75-09-2	84.90	20.0	69.4	31.7	110		100	WG1799756
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG1799756
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG1799756
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG1799756
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG1799756
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG1799756
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG1799756
2-Propanol	67-63-0	60.10	125	307	1720	4230		100	WG1799756
Propene	115-07-1	42.10	125	215	ND	ND		100	WG1799756
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG1799756
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG1799756
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG1799756
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG1799756
Toluene	108-88-3	92.10	50.0	188	ND	ND		100	WG1799756
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG1799756



Collected date/time: 01/06/22 00:00

L1448920

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	20.0	109	ND	ND		100	WG1799756
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG1799756
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG1799756
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG1799756
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG1799756
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG1799756
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG1799756
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG1799756
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG1799756
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG1799756
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG1799756
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	123000	508000		100	WG1799756
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG1799756
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		90.1				WG1800392

Sample Narrative:

L1448920-01 WG1799756: Non-target compounds too high to run at a lower dilution.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3748834-3 01/10/22 10:46

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	0.0589	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
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1448920-01

Method Blank (MB)

(MB) R3748834-3 01/10/22 10:46

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.139	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
Ethanol	U		0.265	1.25
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	98.5			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3748834-1 01/10/22 09:20 • (LCSD) R3748834-2 01/10/22 10:03

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.65	3.53	97.3	94.1	55.0-148			3.34	25
Propene	3.75	4.01	3.93	107	105	64.0-144			2.02	25
Dichlorodifluoromethane	3.75	3.66	3.58	97.6	95.5	64.0-139			2.21	25
1,2-Dichlorotetrafluoroethane	3.75	3.56	3.56	94.9	94.9	70.0-130			0.000	25
Chloromethane	3.75	3.81	3.83	102	102	70.0-130			0.524	25

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

(LCS) R3748834-1 01/10/22 09:20 • (LCSD) R3748834-2 01/10/22 10:03

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Vinyl chloride	3.75	3.41	3.36	90.9	89.6	70.0-130			1.48	25
1,3-Butadiene	3.75	3.38	3.37	90.1	89.9	70.0-130			0.296	25
Bromomethane	3.75	3.20	3.17	85.3	84.5	70.0-130			0.942	25
Chloroethane	3.75	3.34	3.19	89.1	85.1	70.0-130			4.59	25
Trichlorofluoromethane	3.75	3.25	3.17	86.7	84.5	70.0-130			2.49	25
1,1,2-Trichlorotrifluoroethane	3.75	3.33	3.27	88.8	87.2	70.0-130			1.82	25
1,1-Dichloroethene	3.75	3.48	3.40	92.8	90.7	70.0-130			2.33	25
1,1-Dichloroethane	3.75	3.52	3.50	93.9	93.3	70.0-130			0.570	25
Acetone	3.75	3.55	3.50	94.7	93.3	70.0-130			1.42	25
2-Propanol	3.75	3.52	3.43	93.9	91.5	70.0-139			2.59	25
Carbon disulfide	3.75	3.29	3.18	87.7	84.8	70.0-130			3.40	25
Methylene Chloride	3.75	3.42	3.38	91.2	90.1	70.0-130			1.18	25
MTBE	3.75	3.43	3.40	91.5	90.7	70.0-130			0.878	25
trans-1,2-Dichloroethene	3.75	3.47	3.39	92.5	90.4	70.0-130			2.33	25
Vinyl acetate	3.75	3.31	3.50	88.3	93.3	70.0-130			5.58	25
Methyl Ethyl Ketone	3.75	3.62	3.62	96.5	96.5	70.0-130			0.000	25
cis-1,2-Dichloroethene	3.75	3.63	3.58	96.8	95.5	70.0-130			1.39	25
Chloroform	3.75	3.47	3.43	92.5	91.5	70.0-130			1.16	25
Cyclohexane	3.75	3.62	3.58	96.5	95.5	70.0-130			1.11	25
1,1,1-Trichloroethane	3.75	3.55	3.47	94.7	92.5	70.0-130			2.28	25
Carbon tetrachloride	3.75	3.44	3.43	91.7	91.5	70.0-130			0.291	25
Benzene	3.75	3.47	3.46	92.5	92.3	70.0-130			0.289	25
1,2-Dichloroethane	3.75	3.50	3.47	93.3	92.5	70.0-130			0.861	25
Heptane	3.75	3.68	3.70	98.1	98.7	70.0-130			0.542	25
Trichloroethylene	3.75	3.40	3.39	90.7	90.4	70.0-130			0.295	25
1,2-Dichloropropane	3.75	3.52	3.43	93.9	91.5	70.0-130			2.59	25
1,4-Dioxane	3.75	3.41	3.32	90.9	88.5	70.0-140			2.67	25
Bromodichloromethane	3.75	3.49	3.46	93.1	92.3	70.0-130			0.863	25
cis-1,3-Dichloropropene	3.75	3.54	3.51	94.4	93.6	70.0-130			0.851	25
4-Methyl-2-pentanone (MIBK)	3.75	3.71	3.73	98.9	99.5	70.0-139			0.538	25
Toluene	3.75	3.56	3.47	94.9	92.5	70.0-130			2.56	25
trans-1,3-Dichloropropene	3.75	3.64	3.57	97.1	95.2	70.0-130			1.94	25
1,1,2-Trichloroethane	3.75	3.48	3.44	92.8	91.7	70.0-130			1.16	25
Tetrachloroethylene	3.75	3.36	3.30	89.6	88.0	70.0-130			1.80	25
Methyl Butyl Ketone	3.75	3.74	3.70	99.7	98.7	70.0-149			1.08	25
Dibromochloromethane	3.75	3.43	3.42	91.5	91.2	70.0-130			0.292	25
1,2-Dibromoethane	3.75	3.48	3.44	92.8	91.7	70.0-130			1.16	25
Chlorobenzene	3.75	3.51	3.46	93.6	92.3	70.0-130			1.43	25
Ethylbenzene	3.75	3.56	3.62	94.9	96.5	70.0-130			1.67	25
m&p-Xylene	7.50	7.22	7.23	96.3	96.4	70.0-130			0.138	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1448920-01](#)

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

(LCS) R3748834-1 01/10/22 09:20 • (LCSD) R3748834-2 01/10/22 10:03

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 %
o-Xylene	3.75	3.57	3.57	95.2	95.2	70.0-130			0.000	25
Styrene	3.75	3.64	3.61	97.1	96.3	70.0-130			0.828	25
Bromoform	3.75	3.44	3.41	91.7	90.9	70.0-130			0.876	25
1,1,2,2-Tetrachloroethane	3.75	3.49	3.54	93.1	94.4	70.0-130			1.42	25
4-Ethyltoluene	3.75	3.60	3.59	96.0	95.7	70.0-130			0.278	25
1,3,5-Trimethylbenzene	3.75	3.58	3.56	95.5	94.9	70.0-130			0.560	25
1,2,4-Trimethylbenzene	3.75	3.53	3.55	94.1	94.7	70.0-130			0.565	25
1,3-Dichlorobenzene	3.75	3.61	3.63	96.3	96.8	70.0-130			0.552	25
1,4-Dichlorobenzene	3.75	3.74	3.77	99.7	101	70.0-130			0.799	25
Benzyl Chloride	3.75	3.69	3.72	98.4	99.2	70.0-152			0.810	25
1,2-Dichlorobenzene	3.75	3.65	3.71	97.3	98.9	70.0-130			1.63	25
1,2,4-Trichlorobenzene	3.75	4.02	3.90	107	104	70.0-160			3.03	25
Hexachloro-1,3-butadiene	3.75	3.90	3.84	104	102	70.0-151			1.55	25
Naphthalene	3.75	3.99	3.93	106	105	70.0-159			1.52	25
TPH (GC/MS) Low Fraction	203	210	210	103	103	70.0-130			0.000	25
Allyl Chloride	3.75	3.58	3.61	95.5	96.3	70.0-130			0.834	25
2-Chlorotoluene	3.75	3.54	3.45	94.4	92.0	70.0-130			2.58	25
Methyl Methacrylate	3.75	3.55	3.53	94.7	94.1	70.0-130			0.565	25
Tetrahydrofuran	3.75	3.75	3.79	100	101	70.0-137			1.06	25
2,2,4-Trimethylpentane	3.75	3.79	3.74	101	99.7	70.0-130			1.33	25
Vinyl Bromide	3.75	3.19	3.09	85.1	82.4	70.0-130			3.18	25
Isopropylbenzene	3.75	3.64	3.62	97.1	96.5	70.0-130			0.551	25
(S) 1,4-Bromofluorobenzene				98.6	100	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3749095-2 01/11/22 10:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	88.6			60.0-140

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

(LCS) R3749095-1 01/11/22 09:41 • (LCSD) R3749095-3 01/11/22 10:58

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	3.40	3.21	90.7	85.6	70.0-130			5.75	25
(S) 1,4-Bromofluorobenzene				90.9	91.0	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # L1448920
E211

PB:

Shipped Via:

Remarks	Sample # (lab only)

No. of Cntr	Year	Value
1	1990	100
2	1991	100
3	1992	100
4	1993	100
5	1994	100
6	1995	100
7	1996	100
8	1997	100
9	1998	100
10	1999	100
11	2000	100
12	2001	100
13	2002	100
14	2003	100
15	2004	100
16	2005	100
17	2006	100
18	2007	100
19	2008	100
20	2009	100
21	2010	100
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35	2024	100
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105	2094	100
106	2095	100
107	2096	100
108	2097	100
109	2098	100
110	2099	100
111	2100	100
112	2101	100
113	2102	100
114	2103	100
115	2104	100
116	2105	100
117	2106	100
118	2107	100
119	2108	

Packed on Ice N ☒ Y

Cntrs

1

TO-15 Summa

-0

COC Seal Present/Intact:	NP	Y	N
COC Signed/Accurate:		☒ Y	☐ N
Bottles arrive intact:		☒ Y	☐ N
Correct bottles used:		☒ Y	☐ N
Sufficient volume sent:		☒ Y	☐ N
<u>If Applicable</u>			
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:	

1-8-22 1330

Condition:
NCF ☒ OK



ANALYTICAL REPORT

January 19, 2022

Ensolum, LLC

Sample Delivery Group: L1451260
Samples Received: 01/14/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
705 W. Wadley Ave, Ste 210
Midland, TX 79705



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 National12065 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 L1451260-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	17	⁸ Gl
Al: Accreditations & Locations	18	
Sc: Sample Chain of Custody	19	⁹ Al
		¹⁰ Sc

LEVEY WELL L1451260-01 Air

Collected by
Aaron Marquez

Collected date/time
01/12/22 13:52

Received date/time
01/14/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1802759	20	01/15/22 21:09	01/15/22 21:09	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1803884	1000	01/18/22 16:36	01/18/22 16:36	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1804452	10000	01/18/22 15:55	01/18/22 15:55	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 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: 01/19/2022 09:26					
Project Name: Levey Well		Laboratory Job Number: L1451260-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1802759, WG1803884 and WG1804452					
#1	A2	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 01/19/2022 09:26				
Project Name: Levey Well			Laboratory Job Number: L1451260-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1802759, WG1803884 and WG1804452				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 01/19/2022 09:26	
Project Name: Levey Well		Laboratory Job Number: L1451260-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1802759, WG1803884 and WG1804452	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 01/12/22 13:52

L1451260

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	13200	31400		1000	WG1803884
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1802759
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1802759
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1802759
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1802759
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1802759
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1802759
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1802759
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1802759
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1802759
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1802759
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1802759
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1802759
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1802759
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1802759
Cyclohexane	110-82-7	84.20	200	689	47600	164000		1000	WG1803884
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1802759
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1802759
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1802759
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1802759
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1802759
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1802759
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1802759
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1802759
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1802759
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1802759
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1802759
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1802759
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1802759
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1802759
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1802759
Ethylbenzene	100-41-4	106	4.00	17.3	26.6	115		20	WG1802759
4-Ethyltoluene	622-96-8	120	4.00	19.6	100	491		20	WG1802759
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1802759
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1802759
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1802759
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1802759
Heptane	142-82-5	100	200	818	83700	342000		1000	WG1803884
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1802759
n-Hexane	110-54-3	86.20	6300	22200	477000	1680000		10000	WG1804452
Isopropylbenzene	98-82-8	120.20	4.00	19.7	20.1	98.8		20	WG1802759
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1802759
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1802759
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	1890	5570		20	WG1802759
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1802759
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1802759
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1802759
Naphthalene	91-20-3	128	12.6	66.0	16.4	85.9		20	WG1802759
2-Propanol	67-63-0	60.10	1250	3070	33300	81900		1000	WG1803884
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1802759
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1802759
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1802759
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1802759
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1802759
Toluene	108-88-3	92.10	10.0	37.7	69.7	263		20	WG1802759
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1802759

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/12/22 13:52

L1451260

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	WG1802759
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1802759
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1802759
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	81.4	400		20	WG1802759
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	88.2	433		20	WG1802759
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1802759
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1802759
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1802759
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1802759
m&p-Xylene	1330-20-7	106	8.00	34.7	78.6	341		20	WG1802759
o-Xylene	95-47-6	106	4.00	17.3	35.9	156		20	WG1802759
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	826000	1650000	6820000		1000	WG1803884
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		115				WG1802759
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG1803884
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.9				WG1804452

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3750485-3 01/15/22 07:51

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
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
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
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1451260-01

Method Blank (MB)

(MB) R3750485-3 01/15/22 07:51

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
Propene	0.259	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
Ethanol	U		0.265	1.25
(S) 1,4-Bromofluorobenzene	99.3			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3750485-1 01/15/22 06:27 • (LCSD) R3750485-2 01/15/22 07:10

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.86	3.77	103	101	55.0-148			2.36	25
Propene	3.75	4.09	3.98	109	106	64.0-144			2.73	25
Dichlorodifluoromethane	3.75	2.93	2.79	78.1	74.4	64.0-139			4.90	25
1,2-Dichlorotetrafluoroethane	3.75	4.08	4.01	109	107	70.0-130			1.73	25
Chloromethane	3.75	4.17	4.14	111	110	70.0-130			0.722	25
Vinyl chloride	3.75	4.05	3.92	108	105	70.0-130			3.26	25
1,3-Butadiene	3.75	3.97	3.93	106	105	70.0-130			1.01	25
Bromomethane	3.75	4.14	4.11	110	110	70.0-130			0.727	25
Chloroethane	3.75	4.22	4.15	113	111	70.0-130			1.67	25
Trichlorofluoromethane	3.75	4.06	4.01	108	107	70.0-130			1.24	25

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

(LCS) R3750485-1 01/15/22 06:27 • (LCSD) R3750485-2 01/15/22 07:10

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-Trichlorotrifluoroethane	3.75	4.00	3.97	107	106	70.0-130			0.753	25
1,1-Dichloroethene	3.75	4.05	4.04	108	108	70.0-130			0.247	25
1,1-Dichloroethane	3.75	4.10	4.08	109	109	70.0-130			0.489	25
Carbon disulfide	3.75	4.03	3.99	107	106	70.0-130			0.998	25
Methylene Chloride	3.75	4.14	4.11	110	110	70.0-130			0.727	25
MTBE	3.75	4.06	4.02	108	107	70.0-130			0.990	25
trans-1,2-Dichloroethene	3.75	4.00	3.97	107	106	70.0-130			0.753	25
Vinyl acetate	3.75	4.01	3.84	107	102	70.0-130			4.33	25
Methyl Ethyl Ketone	3.75	4.02	4.12	107	110	70.0-130			2.46	25
cis-1,2-Dichloroethene	3.75	4.00	3.98	107	106	70.0-130			0.501	25
Chloroform	3.75	4.02	3.97	107	106	70.0-130			1.25	25
1,1,1-Trichloroethane	3.75	3.95	3.92	105	105	70.0-130			0.762	25
Carbon tetrachloride	3.75	4.00	3.94	107	105	70.0-130			1.51	25
Benzene	3.75	3.86	3.85	103	103	70.0-130			0.259	25
1,2-Dichloroethane	3.75	3.79	3.76	101	100	70.0-130			0.795	25
Trichloroethylene	3.75	3.78	3.76	101	100	70.0-130			0.531	25
1,2-Dichloropropane	3.75	3.85	3.82	103	102	70.0-130			0.782	25
1,4-Dioxane	3.75	3.88	3.83	103	102	70.0-140			1.30	25
Bromodichloromethane	3.75	3.82	3.80	102	101	70.0-130			0.525	25
cis-1,3-Dichloropropene	3.75	3.85	3.79	103	101	70.0-130			1.57	25
4-Methyl-2-pentanone (MIBK)	3.75	4.06	4.02	108	107	70.0-139			0.990	25
Toluene	3.75	3.80	3.78	101	101	70.0-130			0.528	25
trans-1,3-Dichloropropene	3.75	3.89	3.84	104	102	70.0-130			1.29	25
1,1,2-Trichloroethane	3.75	3.73	3.75	99.5	100	70.0-130			0.535	25
Tetrachloroethylene	3.75	3.78	3.75	101	100	70.0-130			0.797	25
Methyl Butyl Ketone	3.75	4.05	3.98	108	106	70.0-149			1.74	25
Dibromochloromethane	3.75	3.74	3.69	99.7	98.4	70.0-130			1.35	25
1,2-Dibromoethane	3.75	3.95	3.93	105	105	70.0-130			0.508	25
Chlorobenzene	3.75	3.94	3.90	105	104	70.0-130			1.02	25
Ethylbenzene	3.75	4.15	4.13	111	110	70.0-130			0.483	25
m&p-Xylene	7.50	8.18	8.13	109	108	70.0-130			0.613	25
o-Xylene	3.75	3.96	3.94	106	105	70.0-130			0.506	25
Styrene	3.75	4.06	4.03	108	107	70.0-130			0.742	25
Bromoform	3.75	3.76	3.72	100	99.2	70.0-130			1.07	25
1,1,2,2-Tetrachloroethane	3.75	4.03	4.01	107	107	70.0-130			0.498	25
4-Ethyltoluene	3.75	4.23	4.17	113	111	70.0-130			1.43	25
1,3,5-Trimethylbenzene	3.75	3.90	3.89	104	104	70.0-130			0.257	25
1,2,4-Trimethylbenzene	3.75	4.01	4.00	107	107	70.0-130			0.250	25
1,3-Dichlorobenzene	3.75	4.27	4.25	114	113	70.0-130			0.469	25
1,4-Dichlorobenzene	3.75	4.31	4.31	115	115	70.0-130			0.000	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3750485-1 01/15/22 06:27 • (LCSD) R3750485-2 01/15/22 07:10

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzyl Chloride	3.75	5.01	4.97	134	133	70.0-152			0.802	25
1,2-Dichlorobenzene	3.75	4.15	4.12	111	110	70.0-130			0.726	25
1,2,4-Trichlorobenzene	3.75	3.62	3.58	96.5	95.5	70.0-160			1.11	25
Hexachloro-1,3-butadiene	3.75	4.00	3.99	107	106	70.0-151			0.250	25
Naphthalene	3.75	4.10	4.06	109	108	70.0-159			0.980	25
Allyl Chloride	3.75	4.12	4.09	110	109	70.0-130			0.731	25
2-Chlorotoluene	3.75	4.06	4.05	108	108	70.0-130			0.247	25
Methyl Methacrylate	3.75	3.90	3.91	104	104	70.0-130			0.256	25
Tetrahydrofuran	3.75	4.16	4.13	111	110	70.0-137			0.724	25
2,2,4-Trimethylpentane	3.75	4.19	4.15	112	111	70.0-130			0.959	25
Vinyl Bromide	3.75	4.08	4.05	109	108	70.0-130			0.738	25
Isopropylbenzene	3.75	4.03	4.00	107	107	70.0-130			0.747	25
(S) 1,4-Bromofluorobenzene				101	102	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

W01803884

Volatile Organic Compounds (MS) by Method TO-15

L1451260-01

Method Blank (MB)

(MB) R3751197-1 01/18/22 10:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.25
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
2-Propanol	U		0.264	1.25
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	98.4			60.0-140

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

(LCS) R3751197-2 01/18/22 10:52 • (LCSD) R3751197-3 01/18/22 11:37

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	4.45	4.48	119	119	70.0-130			0.672	25
2-Propanol	3.75	4.38	4.36	117	116	70.0-139			0.458	25
Cyclohexane	3.75	4.08	4.14	109	110	70.0-130			1.46	25
Heptane	3.75	4.38	4.49	117	120	70.0-130			2.48	25
TPH (GC/MS) Low Fraction	203	244	245	120	121	70.0-130			0.409	25
(S) 1,4-Bromofluorobenzene				102	103	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1451260-01](#)

Method Blank (MB)

(MB) R3751205-1 01/18/22 10:08

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	98.4			60.0-140

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

(LCS) R3751205-2 01/18/22 10:52 • (LCSD) R3751205-3 01/18/22 11:37

	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	4.37	4.30	117	115	70.0-130			1.61	25
(S) 1,4-Bromofluorobenzene				102	103	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

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

Ensoium, LLC

705 W. Wadley Ave, Ste 210
Midland, TX 79705

Report to:

Beaux Jennings

Project Description:

Levey Well

Phone: 210-219-8858

Client Project #

03B1417001

Collected by (print):

Aaron Marquez

Collected by (signature):



Immediately

Packed on Ice N Y

City/State

Collected: Hobbs, New Mexico

Please Circle:

PT MT CT ET

Billing Information:

Accounts Payable

2351 W Northwest Hwy. Ste.
1203
Dallas, TX 75220Pres
Chk

Email To: bjennings@ensolum.com

Analysis / Container / Preservative

Chain of Custody

Page 1 of 1

Pace Analytical®
National Center for Testing & Innovation12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-757-5859
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 # 1451260

E105

Acctnum: ENSOLUMMTX

Template: T180734

Prelogin: P827709

PM: 134 - Mark W. Beasley

PB:

Shipped Via:

Remarks

Sample # (lab only)

Levey Well

G

Air

-

1-12-22 1352

1

X

NFE

AAM

1-12-22

* 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 #

9883 0085 1324

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)



Date:

1-13-22

Time:

12:30

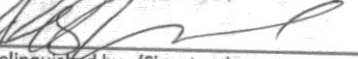
Received by: (Signature)



Trip Blank Received: Yes/No

HCL/MeOH
TBR

Relinquished by: (Signature)



Date:

1-13-22

Time:

14:00

Received by: (Signature)

FedEx

Temp: °C
AM 3-

Bottles Received:

1

Relinquished by: (Signature)



Date:

1-14-22

Time:

8:15

Received for lab by: (Signature)



Date: 1/14/22

Time: 8:15

Hold:

Condition:
NCF / OK



ANALYTICAL REPORT

January 24, 2022

Ensolum, LLC

Sample Delivery Group: L1453000
Samples Received: 01/20/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
705 W. Wadley Ave, Ste 210
Midland, TX 79705

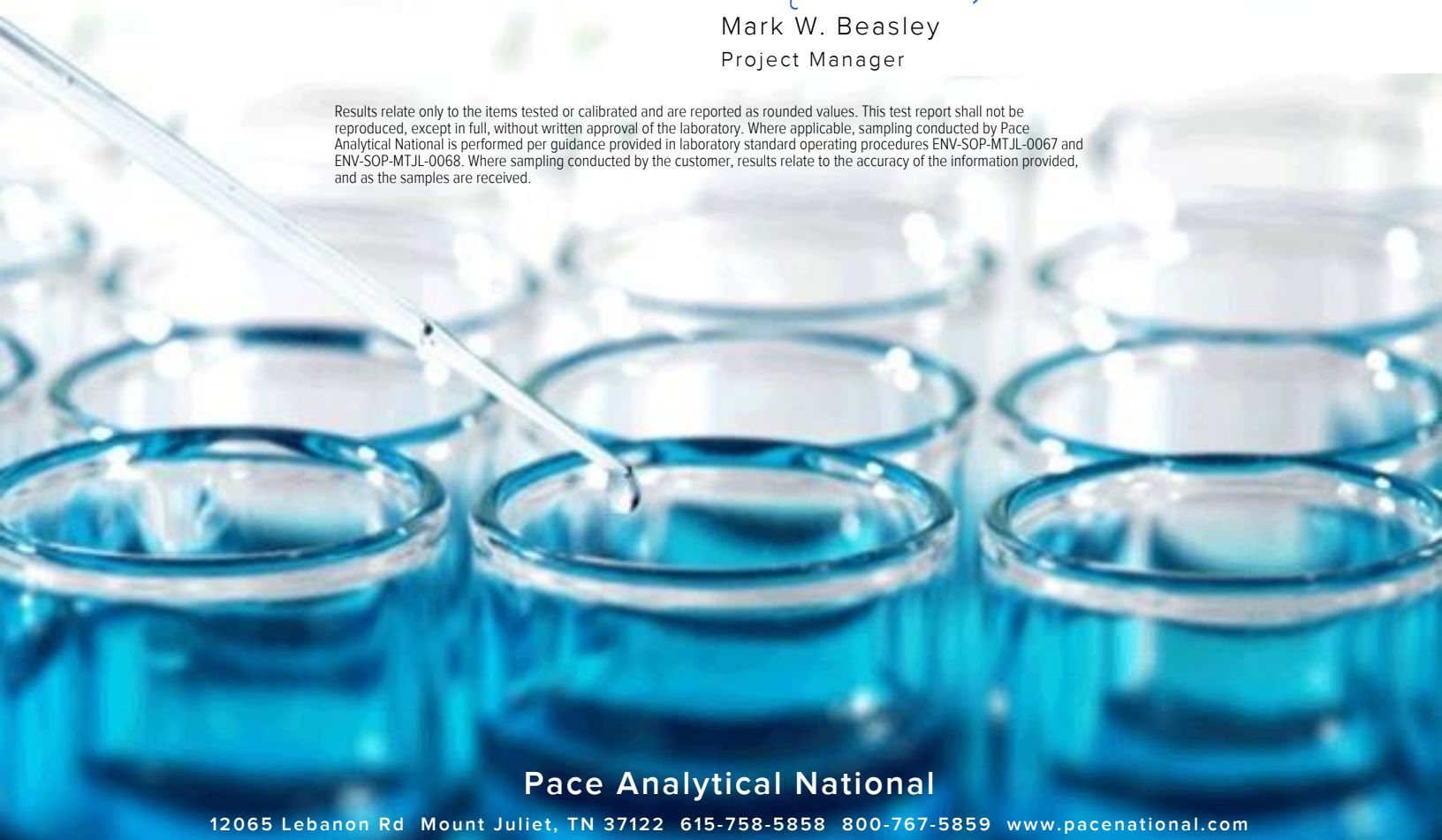


Entire Report Reviewed By:

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 L1453000-01	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 L1453000-01 Air

Collected by
Aaron Marquez

Collected date/time
01/19/22 12:08

Received date/time
01/20/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1805976	50	01/21/22 18:58	01/21/22 18:58	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1806451	1000	01/22/22 22:48	01/22/22 22:48	CAW	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 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: 01/24/2022 15:32				
Project Name: Levey Well			Laboratory Job Number: L1453000-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1805976 and WG1806451				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 01/24/2022 15:32				
Project Name: Levey Well			Laboratory Job Number: L1453000-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1805976 and WG1806451				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 01/24/2022 15:32	
Project Name: Levey Well		Laboratory Job Number: L1453000-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1805976 and WG1806451	
ER # ¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 01/19/22 12:08

L1453000

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	62.5	149	191	454		50	WG1805976
Allyl chloride	107-05-1	76.53	10.0	31.3	ND	ND		50	WG1805976
Benzene	71-43-2	78.10	10.0	31.9	ND	ND		50	WG1805976
Benzyl Chloride	100-44-7	127	10.0	51.9	ND	ND		50	WG1805976
Bromodichloromethane	75-27-4	164	10.0	67.1	ND	ND		50	WG1805976
Bromoform	75-25-2	253	30.0	310	ND	ND		50	WG1805976
Bromomethane	74-83-9	94.90	10.0	38.8	ND	ND		50	WG1805976
1,3-Butadiene	106-99-0	54.10	100	221	ND	ND		50	WG1805976
Carbon disulfide	75-15-0	76.10	10.0	31.1	ND	ND		50	WG1805976
Carbon tetrachloride	56-23-5	154	10.0	63.0	ND	ND		50	WG1805976
Chlorobenzene	108-90-7	113	10.0	46.2	ND	ND		50	WG1805976
Chloroethane	75-00-3	64.50	10.0	26.4	ND	ND		50	WG1805976
Chloroform	67-66-3	119	10.0	48.7	ND	ND		50	WG1805976
Chloromethane	74-87-3	50.50	10.0	20.7	ND	ND		50	WG1805976
2-Chlorotoluene	95-49-8	126	10.0	51.5	ND	ND		50	WG1805976
Cyclohexane	110-82-7	84.20	10.0	34.4	3280	11300		50	WG1805976
Dibromochloromethane	124-48-1	208	10.0	85.1	ND	ND		50	WG1805976
1,2-Dibromoethane	106-93-4	188	10.0	76.9	ND	ND		50	WG1805976
1,2-Dichlorobenzene	95-50-1	147	10.0	60.1	ND	ND		50	WG1805976
1,3-Dichlorobenzene	541-73-1	147	10.0	60.1	ND	ND		50	WG1805976
1,4-Dichlorobenzene	106-46-7	147	10.0	60.1	ND	ND		50	WG1805976
1,2-Dichloroethane	107-06-2	99	10.0	40.5	ND	ND		50	WG1805976
1,1-Dichloroethane	75-34-3	98	10.0	40.1	ND	ND		50	WG1805976
1,1-Dichloroethene	75-35-4	96.90	10.0	39.6	ND	ND		50	WG1805976
cis-1,2-Dichloroethene	156-59-2	96.90	10.0	39.6	ND	ND		50	WG1805976
trans-1,2-Dichloroethene	156-60-5	96.90	10.0	39.6	ND	ND		50	WG1805976
1,2-Dichloropropane	78-87-5	113	10.0	46.2	ND	ND		50	WG1805976
cis-1,3-Dichloropropene	10061-01-5	111	10.0	45.4	ND	ND		50	WG1805976
trans-1,3-Dichloropropene	10061-02-6	111	10.0	45.4	ND	ND		50	WG1805976
1,4-Dioxane	123-91-1	88.10	10.0	36.0	ND	ND		50	WG1805976
Ethanol	64-17-5	46.10	62.5	118	79.1	149		50	WG1805976
Ethylbenzene	100-41-4	106	10.0	43.4	ND	ND		50	WG1805976
4-Ethyltoluene	622-96-8	120	10.0	49.1	19.2	94.2		50	WG1805976
Trichlorofluoromethane	75-69-4	137.40	10.0	56.2	ND	ND		50	WG1805976
Dichlorodifluoromethane	75-71-8	120.92	10.0	49.5	ND	ND		50	WG1805976
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	10.0	76.6	ND	ND		50	WG1805976
1,2-Dichlorotetrafluoroethane	76-14-2	171	10.0	69.9	ND	ND		50	WG1805976
Heptane	142-82-5	100	200	818	7050	28800		1000	WG1806451
Hexachloro-1,3-butadiene	87-68-3	261	31.5	336	ND	ND		50	WG1805976
n-Hexane	110-54-3	86.20	630	2220	48500	171000		1000	WG1806451
Isopropylbenzene	98-82-8	120.20	10.0	49.2	ND	ND		50	WG1805976
Methylene Chloride	75-09-2	84.90	10.0	34.7	ND	ND		50	WG1805976
Methyl Butyl Ketone	591-78-6	100	62.5	256	ND	ND		50	WG1805976
2-Butanone (MEK)	78-93-3	72.10	62.5	184	ND	ND		50	WG1805976
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	62.5	256	ND	ND		50	WG1805976
Methyl methacrylate	80-62-6	100.12	10.0	40.9	236	966		50	WG1805976
MTBE	1634-04-4	88.10	10.0	36.0	ND	ND		50	WG1805976
Naphthalene	91-20-3	128	31.5	165	ND	ND		50	WG1805976
2-Propanol	67-63-0	60.10	62.5	154	1520	3740		50	WG1805976
Propene	115-07-1	42.10	62.5	108	ND	ND		50	WG1805976
Styrene	100-42-5	104	10.0	42.5	ND	ND		50	WG1805976
1,1,2,2-Tetrachloroethane	79-34-5	168	10.0	68.7	ND	ND		50	WG1805976
Tetrachloroethylene	127-18-4	166	10.0	67.9	ND	ND		50	WG1805976
Tetrahydrofuran	109-99-9	72.10	10.0	29.5	ND	ND		50	WG1805976
Toluene	108-88-3	92.10	25.0	94.2	ND	ND		50	WG1805976
1,2,4-Trichlorobenzene	120-82-1	181	31.5	233	ND	ND		50	WG1805976

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/19/22 12:08

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	10.0	54.4	ND	ND		50	WG1805976
1,1,2-Trichloroethane	79-00-5	133	10.0	54.4	ND	ND		50	WG1805976
Trichloroethylene	79-01-6	131	10.0	53.6	ND	ND		50	WG1805976
1,2,4-Trimethylbenzene	95-63-6	120	10.0	49.1	16.5	81.0		50	WG1805976
1,3,5-Trimethylbenzene	108-67-8	120	10.0	49.1	45.1	221		50	WG1805976
2,2,4-Trimethylpentane	540-84-1	114.22	10.0	46.7	ND	ND		50	WG1805976
Vinyl chloride	75-01-4	62.50	10.0	25.6	ND	ND		50	WG1805976
Vinyl Bromide	593-60-2	106.95	10.0	43.7	ND	ND		50	WG1805976
Vinyl acetate	108-05-4	86.10	10.0	35.2	ND	ND		50	WG1805976
m&p-Xylene	1330-20-7	106	20.0	86.7	ND	ND		50	WG1805976
o-Xylene	95-47-6	106	10.0	43.4	ND	ND		50	WG1805976
TPH (GC/MS) Low Fraction	8006-61-9	101	10000	41300	123000	508000		50	WG1805976
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.9				WG1805976
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG1806451

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3752277-2 01/21/22 09:40

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
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3752277-2 01/21/22 09:40

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
Ethanol	U		0.265	1.25
TPH (GC/MS) Low Fraction	51.1	U	39.7	200
(S) 1,4-Bromofluorobenzene	95.7			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3752277-1 01/21/22 09:10 • (LCSD) R3752277-3 01/21/22 11:01

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	4.09	4.02	109	107	55.0-148			1.73	25
Propene	3.75	3.81	3.69	102	98.4	64.0-144			3.20	25
Dichlorodifluoromethane	3.75	3.63	3.57	96.8	95.2	64.0-139			1.67	25
1,2-Dichlorotetrafluoroethane	3.75	3.51	3.49	93.6	93.1	70.0-130			0.571	25
Chloromethane	3.75	3.49	3.41	93.1	90.9	70.0-130			2.32	25
Vinyl chloride	3.75	3.58	3.47	95.5	92.5	70.0-130			3.12	25

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

(LCS) R3752277-1 01/21/22 09:10 • (LCSD) R3752277-3 01/21/22 11:01

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	3.30	3.49	88.0	93.1	70.0-130			5.60	25
Bromomethane	3.75	3.65	3.62	97.3	96.5	70.0-130			0.825	25
Chloroethane	3.75	3.75	3.61	100	96.3	70.0-130			3.80	25
Trichlorofluoromethane	3.75	3.83	3.81	102	102	70.0-130			0.524	25
1,1,2-Trichlorotrifluoroethane	3.75	3.24	3.28	86.4	87.5	70.0-130			1.23	25
1,1-Dichloroethene	3.75	3.39	3.40	90.4	90.7	70.0-130			0.295	25
1,1-Dichloroethane	3.75	4.12	3.95	110	105	70.0-130			4.21	25
Acetone	3.75	3.93	4.11	105	110	70.0-130			4.48	25
2-Propanol	3.75	3.87	3.72	103	99.2	70.0-139			3.95	25
Carbon disulfide	3.75	3.28	3.28	87.5	87.5	70.0-130			0.000	25
Methylene Chloride	3.75	3.26	3.29	86.9	87.7	70.0-130			0.916	25
MTBE	3.75	4.27	4.06	114	108	70.0-130			5.04	25
trans-1,2-Dichloroethene	3.75	3.29	3.37	87.7	89.9	70.0-130			2.40	25
Vinyl acetate	3.75	4.07	3.91	109	104	70.0-130			4.01	25
Methyl Ethyl Ketone	3.75	4.27	4.03	114	107	70.0-130			5.78	25
cis-1,2-Dichloroethene	3.75	4.17	3.98	111	106	70.0-130			4.66	25
Chloroform	3.75	4.00	3.83	107	102	70.0-130			4.34	25
Cyclohexane	3.75	4.07	3.93	109	105	70.0-130			3.50	25
1,1,1-Trichloroethane	3.75	4.03	3.90	107	104	70.0-130			3.28	25
Carbon tetrachloride	3.75	3.79	3.74	101	99.7	70.0-130			1.33	25
Benzene	3.75	4.02	3.87	107	103	70.0-130			3.80	25
1,2-Dichloroethane	3.75	4.16	4.05	111	108	70.0-130			2.68	25
Trichloroethylene	3.75	3.96	3.85	106	103	70.0-130			2.82	25
1,2-Dichloropropane	3.75	3.99	3.80	106	101	70.0-130			4.88	25
1,4-Dioxane	3.75	4.18	3.93	111	105	70.0-140			6.17	25
Bromodichloromethane	3.75	3.89	3.83	104	102	70.0-130			1.55	25
cis-1,3-Dichloropropene	3.75	4.13	3.99	110	106	70.0-130			3.45	25
4-Methyl-2-pentanone (MIBK)	3.75	4.06	3.91	108	104	70.0-139			3.76	25
Toluene	3.75	4.05	3.95	108	105	70.0-130			2.50	25
trans-1,3-Dichloropropene	3.75	4.13	4.08	110	109	70.0-130			1.22	25
1,1,2-Trichloroethane	3.75	3.96	3.83	106	102	70.0-130			3.34	25
Tetrachloroethylene	3.75	3.96	3.84	106	102	70.0-130			3.08	25
Methyl Butyl Ketone	3.75	4.20	3.95	112	105	70.0-149			6.13	25
Dibromochloromethane	3.75	3.82	3.74	102	99.7	70.0-130			2.12	25
1,2-Dibromoethane	3.75	4.19	3.98	112	106	70.0-130			5.14	25
Chlorobenzene	3.75	4.12	3.92	110	105	70.0-130			4.98	25
Ethylbenzene	3.75	4.16	4.01	111	107	70.0-130			3.67	25
m&p-Xylene	7.50	7.96	7.91	106	105	70.0-130			0.630	25
o-Xylene	3.75	4.10	4.09	109	109	70.0-130			0.244	25
Styrene	3.75	4.40	4.35	117	116	70.0-130			1.14	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3752277-1 01/21/22 09:10 • (LCSD) R3752277-3 01/21/22 11:01

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	3.76	96.5	100	70.0-130			3.79	25
1,1,2,2-Tetrachloroethane	3.75	3.92	3.78	105	101	70.0-130			3.64	25
4-Ethyltoluene	3.75	4.32	4.23	115	113	70.0-130			2.11	25
1,3,5-Trimethylbenzene	3.75	4.30	4.20	115	112	70.0-130			2.35	25
1,2,4-Trimethylbenzene	3.75	4.11	4.06	110	108	70.0-130			1.22	25
1,3-Dichlorobenzene	3.75	4.28	4.26	114	114	70.0-130			0.468	25
1,4-Dichlorobenzene	3.75	4.55	4.58	121	122	70.0-130			0.657	25
Benzyl Chloride	3.75	4.43	4.47	118	119	70.0-152			0.899	25
1,2-Dichlorobenzene	3.75	4.19	4.09	112	109	70.0-130			2.42	25
1,2,4-Trichlorobenzene	3.75	3.99	3.97	106	106	70.0-160			0.503	25
Hexachloro-1,3-butadiene	3.75	3.80	3.82	101	102	70.0-151			0.525	25
Naphthalene	3.75	3.97	3.91	106	104	70.0-159			1.52	25
TPH (GC/MS) Low Fraction	203	221	220	109	108	70.0-130			0.454	25
Allyl Chloride	3.75	3.31	3.39	88.3	90.4	70.0-130			2.39	25
2-Chlorotoluene	3.75	4.25	4.17	113	111	70.0-130			1.90	25
Methyl Methacrylate	3.75	4.18	3.94	111	105	70.0-130			5.91	25
Tetrahydrofuran	3.75	4.24	4.05	113	108	70.0-137			4.58	25
2,2,4-Trimethylpentane	3.75	4.14	3.90	110	104	70.0-130			5.97	25
Vinyl Bromide	3.75	3.82	3.84	102	102	70.0-130			0.522	25
Isopropylbenzene	3.75	4.13	4.04	110	108	70.0-130			2.20	25
(S) 1,4-Bromofluorobenzene				108	106	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1453000-01

Method Blank (MB)

(MB) R3752614-3 01/22/22 07:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	99.2			60.0-140

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

(LCS) R3752614-1 01/22/22 06:16 • (LCSD) R3752614-2 01/22/22 06:58

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.25	4.34	113	116	70.0-130			2.10	25
Heptane	3.75	4.03	4.09	107	109	70.0-130			1.48	25
(S) 1,4-Bromofluorobenzene				101	99.8	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.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Ensolum, LLC

705 W. Wadley Ave, Ste 210
Midland, TX 79705Report to:
Beaux Jennings

Project Description:

Levey Well

Phone: 210-219-8858

Client Project #

03B1417001

Collected by (print):

Aaron Marquez

Collected by (signature):



Immediately

Packed on Ice N ☒ Y ☐

Billing Information:

Accounts Payable
2351 W Northwest Hwy. Ste.
1203
Dallas, TX 75220Pres
Chk

Email To: bjennings@ensolum.com

City/State

Collected: Hobbs, New Mexico

Please Circle:

PT MT CT ET

Lab Project #

ENSOLUMMTX-SUMMA

P.O. #

03B1417001

Quote #

Date Results Needed

No.
of
Cntrs

Analysis / Container / Preservative

Chain of Custody Page 344 of 366

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>C185
L1453000

Acctnum: ENSOLUMMTX

Template: T180734

Prelogin: P827709

PM: 134 - Mark W. Beasley

PB:

Shipped Via:

Remarks

Sample # (lab only)

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

No.
of
Cntrs

Levey Well

G

Air

-

1-19-22 1208

1

X

-01

* 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 #

9883 00857493

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ Y ☐ N
COC Signed/Accurate: ☒ ☐ ☐ N
Bottles arrive intact: ☒ ☐ ☐ N
Correct bottles used: ☒ ☐ ☐ N
Sufficient volume sent: ☒ ☐ ☐ N
If Applicable
VOA Zero Headspace: ☐ Y ☐ N
Preservation Correct/Checked: ☒ ☐ ☐ N
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Relinquished by: (Signature)



Date:

1-19-22

Time:

15:00

Received by: (Signature)



Trip Blank Received: Yes / No

HCL / MeOH

TBR

Temp: $AMBS^{\circ}C$

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)



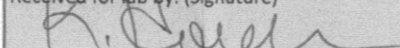
Date:

1-19-22

Time:

15:30

Received for lab by: (Signature)



Date:

1/20/22

Time:

900

Hold:

Condition:

NCF (OK)



ANALYTICAL REPORT

February 02, 2022

Ensolum, LLC

Sample Delivery Group: L1455716
Samples Received: 01/28/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
705 W. Wadley Ave, Ste 210
Midland, TX 79705

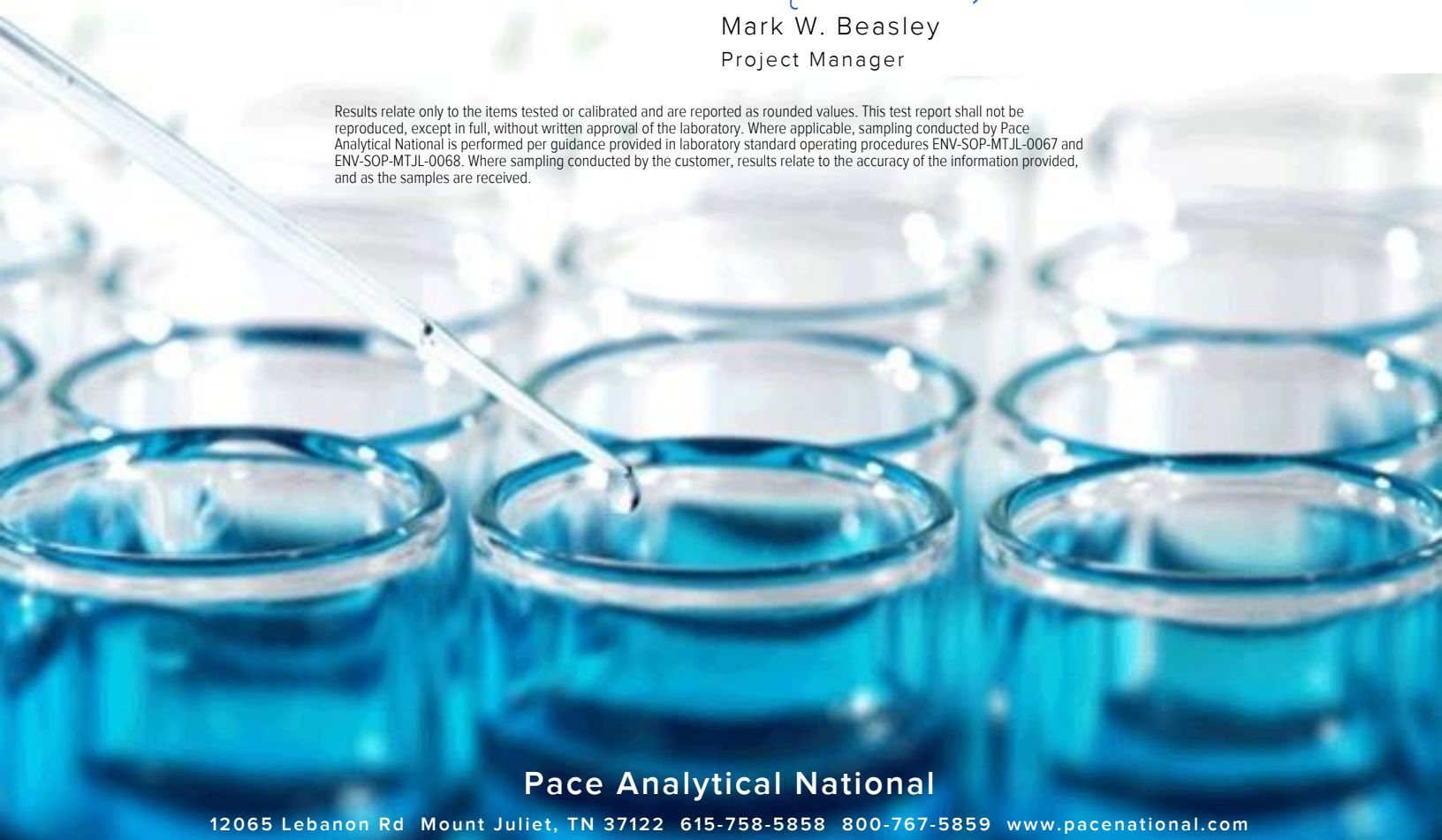


Entire Report Reviewed By:

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 L1455716-01 Air

Collected by
Aaron Marquez

Collected date/time
01/26/22 12:51

Received date/time
01/28/22 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1811897	20	02/02/22 13:46	02/02/22 13:46	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1811934	1000	02/02/22 15:10	02/02/22 15:10	CAW	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: 02/02/2022 17:21					
Project Name: Levey Well		Laboratory Job Number: L1455716-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1811934 and WG1811897					
# 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: 02/02/2022 17:21				
Project Name: Levey Well			Laboratory Job Number: L1455716-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1811934 and WG1811897				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 02/02/2022 17:21	
Project Name: Levey Well		Laboratory Job Number: L1455716-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1811934 and WG1811897	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 01/26/22 12:51

L1455716

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	WG1811897
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1811897
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1811897
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1811897
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1811897
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1811897
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1811897
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1811897
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1811897
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1811897
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1811897
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1811897
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1811897
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1811897
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1811897
Cyclohexane	110-82-7	84.20	200	689	8380	28900		1000	WG1811934
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1811897
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1811897
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1811897
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1811897
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1811897
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1811897
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1811897
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1811897
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1811897
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1811897
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1811897
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1811897
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1811897
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1811897
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1811897
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1811897
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG1811897
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1811897
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1811897
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1811897
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1811897
Heptane	142-82-5	100	200	818	5600	22900		1000	WG1811934
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1811897
n-Hexane	110-54-3	86.20	630	2220	88700	313000		1000	WG1811934
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1811897
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1811897
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1811897
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	ND	ND		20	WG1811897
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1811897
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1811897
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1811897
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1811897
2-Propanol	67-63-0	60.10	25.0	61.5	101	248		20	WG1811897
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1811897
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1811897
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1811897
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1811897
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1811897
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1811897
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1811897

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/26/22 12:51

L1455716

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	WG1811897
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1811897
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1811897
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG1811897
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	ND	ND		20	WG1811897
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1811897
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1811897
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1811897
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1811897
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1811897
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1811897
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	826000	285000	1180000		1000	WG1811934
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG1811897
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		87.7				WG1811934

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3756185-3 02/02/22 10:08

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
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
2-Butanone (MEK)	U		0.0814	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1455716-01

Method Blank (MB)

(MB) R3756185-3 02/02/22 10:08

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
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
Ethanol	U		0.265	1.25
(S) 1,4-Bromofluorobenzene	93.6			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

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

(LCS) R3756185-1 02/02/22 08:43 • (LCSD) R3756185-2 02/02/22 09:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	4.02	3.89	107	104	55.0-148			3.29	25
Propene	3.75	4.11	4.23	110	113	64.0-144			2.88	25
Dichlorodifluoromethane	3.75	3.99	3.96	106	106	64.0-139			0.755	25
1,2-Dichlorotetrafluoroethane	3.75	4.46	4.45	119	119	70.0-130			0.224	25
Chloromethane	3.75	3.94	4.09	105	109	70.0-130			3.74	25
Vinyl chloride	3.75	4.24	4.19	113	112	70.0-130			1.19	25
1,3-Butadiene	3.75	4.27	4.26	114	114	70.0-130			0.234	25
Bromomethane	3.75	4.33	4.35	115	116	70.0-130			0.461	25

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

(LCS) R3756185-1 02/02/22 08:43 • (LCSD) R3756185-2 02/02/22 09:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroethane	3.75	4.26	4.32	114	115	70.0-130			1.40	25
Trichlorofluoromethane	3.75	4.41	4.40	118	117	70.0-130			0.227	25
1,1,2-Trichlorotrifluoroethane	3.75	4.30	4.25	115	113	70.0-130			1.17	25
1,1-Dichloroethene	3.75	4.25	4.28	113	114	70.0-130			0.703	25
1,1-Dichloroethane	3.75	4.13	4.14	110	110	70.0-130			0.242	25
Acetone	3.75	4.63	4.61	123	123	70.0-130			0.433	25
2-Propanol	3.75	4.02	4.04	107	108	70.0-139			0.496	25
Carbon disulfide	3.75	4.45	4.47	119	119	70.0-130			0.448	25
Methylene Chloride	3.75	4.26	4.21	114	112	70.0-130			1.18	25
MTBE	3.75	4.16	4.17	111	111	70.0-130			0.240	25
trans-1,2-Dichloroethene	3.75	4.23	4.27	113	114	70.0-130			0.941	25
Vinyl acetate	3.75	3.99	4.01	106	107	70.0-130			0.500	25
Methyl Ethyl Ketone	3.75	4.08	4.16	109	111	70.0-130			1.94	25
cis-1,2-Dichloroethene	3.75	4.14	4.20	110	112	70.0-130			1.44	25
Chloroform	3.75	4.24	4.28	113	114	70.0-130			0.939	25
1,1,1-Trichloroethane	3.75	4.29	4.27	114	114	70.0-130			0.467	25
Carbon tetrachloride	3.75	4.19	4.18	112	111	70.0-130			0.239	25
Benzene	3.75	4.15	4.09	111	109	70.0-130			1.46	25
1,2-Dichloroethane	3.75	4.34	4.31	116	115	70.0-130			0.694	25
Trichloroethylene	3.75	4.21	4.22	112	113	70.0-130			0.237	25
1,2-Dichloropropane	3.75	4.06	4.12	108	110	70.0-130			1.47	25
1,4-Dioxane	3.75	4.16	4.05	111	108	70.0-140			2.68	25
Bromodichloromethane	3.75	4.32	4.22	115	113	70.0-130			2.34	25
cis-1,3-Dichloropropene	3.75	4.12	4.08	110	109	70.0-130			0.976	25
4-Methyl-2-pentanone (MIBK)	3.75	4.08	4.07	109	109	70.0-139			0.245	25
Toluene	3.75	4.22	4.14	113	110	70.0-130			1.91	25
trans-1,3-Dichloropropene	3.75	4.16	4.10	111	109	70.0-130			1.45	25
1,1,2-Trichloroethane	3.75	4.25	4.23	113	113	70.0-130			0.472	25
Tetrachloroethylene	3.75	4.20	4.11	112	110	70.0-130			2.17	25
Methyl Butyl Ketone	3.75	4.04	4.05	108	108	70.0-149			0.247	25
Dibromochloromethane	3.75	4.22	4.17	113	111	70.0-130			1.19	25
1,2-Dibromoethane	3.75	4.37	4.26	117	114	70.0-130			2.55	25
Chlorobenzene	3.75	4.11	4.07	110	109	70.0-130			0.978	25
Ethylbenzene	3.75	4.13	4.11	110	110	70.0-130			0.485	25
m&p-Xylene	7.50	8.22	8.19	110	109	70.0-130			0.366	25
o-Xylene	3.75	4.02	4.05	107	108	70.0-130			0.743	25
Styrene	3.75	4.06	4.12	108	110	70.0-130			1.47	25
Bromoform	3.75	3.97	3.93	106	105	70.0-130			1.01	25
1,1,2,2-Tetrachloroethane	3.75	4.27	4.30	114	115	70.0-130			0.700	25
4-Ethyltoluene	3.75	4.17	4.19	111	112	70.0-130			0.478	25

Cp

Tc

Ss

Cn

Tr

Sr

Qc

Gl

Al

Sc

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

(LCS) R3756185-1 02/02/22 08:43 • (LCSD) R3756185-2 02/02/22 09:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3,5-Trimethylbenzene	3.75	4.17	4.23	111	113	70.0-130			1.43	25
1,2,4-Trimethylbenzene	3.75	4.20	4.25	112	113	70.0-130			1.18	25
1,3-Dichlorobenzene	3.75	4.00	4.06	107	108	70.0-130			1.49	25
1,4-Dichlorobenzene	3.75	4.02	4.09	107	109	70.0-130			1.73	25
Benzyl Chloride	3.75	4.46	4.45	119	119	70.0-152			0.224	25
1,2-Dichlorobenzene	3.75	3.94	4.04	105	108	70.0-130			2.51	25
1,2,4-Trichlorobenzene	3.75	4.44	4.49	118	120	70.0-160			1.12	25
Hexachloro-1,3-butadiene	3.75	3.89	3.90	104	104	70.0-151			0.257	25
Naphthalene	3.75	4.55	4.64	121	124	70.0-159			1.96	25
Allyl Chloride	3.75	4.44	3.80	118	101	70.0-130			15.5	25
2-Chlorotoluene	3.75	4.20	4.24	112	113	70.0-130			0.948	25
Methyl Methacrylate	3.75	4.09	4.06	109	108	70.0-130			0.736	25
Tetrahydrofuran	3.75	4.01	4.10	107	109	70.0-137			2.22	25
2,2,4-Trimethylpentane	3.75	4.08	4.09	109	109	70.0-130			0.245	25
Vinyl Bromide	3.75	4.36	4.39	116	117	70.0-130			0.686	25
Isopropylbenzene	3.75	4.02	3.98	107	106	70.0-130			1.00	25
(S) 1,4-Bromofluorobenzene				95.7	96.8	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1455716-01](#)

Method Blank (MB)

(MB) R3756156-3 02/02/22 10:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	85.0			60.0-140

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

(LCS) R3756156-1 02/02/22 08:45 • (LCSD) R3756156-2 02/02/22 09:28

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	3.20	3.36	85.3	89.6	70.0-130			4.88	25
Cyclohexane	3.75	3.56	3.67	94.9	97.9	70.0-130			3.04	25
Heptane	3.75	3.05	3.03	81.3	80.8	70.0-130			0.658	25
TPH (GC/MS) Low Fraction	203	198	186	97.5	91.6	70.0-130			6.25	25
(S) 1,4-Bromofluorobenzene				88.6	89.6	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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Ensolum, LLC

705 W. Wadley Ave, Ste 210
Midland, TX 79705Report to:
Beaux Jennings

Project Description:

Levey Well

City/State

Collected: Hobbs, New Mexico

Please Circle:

PT MT CT ET

Phone: 210-219-8858

Client Project #

03B1417001

Lab Project #

ENSOLUMMTX-SUMMA

Collected by (print):

Aaron Marquez

Site/Facility ID #

03B1417001

P.O. #

03B1417001

Collected by (signature):

a. Marquez

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☒ Three Day

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

Levey Well

G

Air

-

1-26-22

1231

1

TO-15 Summa

X

Analysis / Container / Preservative

Chain of Custody Page 362 of 366



12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG #

K124

Acctnum: ENSOLUMMTX

Template: T180734

Prelogin: P827709

PM: 134 - Mark W. Beasley

PB:

Shipped Via:

Remarks

Sample # (lab only)

-01

* 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 #

9883 0085 1298

Relinquished by: (Signature)

Date:

1-27-22

Time:

0835

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

AMB

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:

NCF / OK

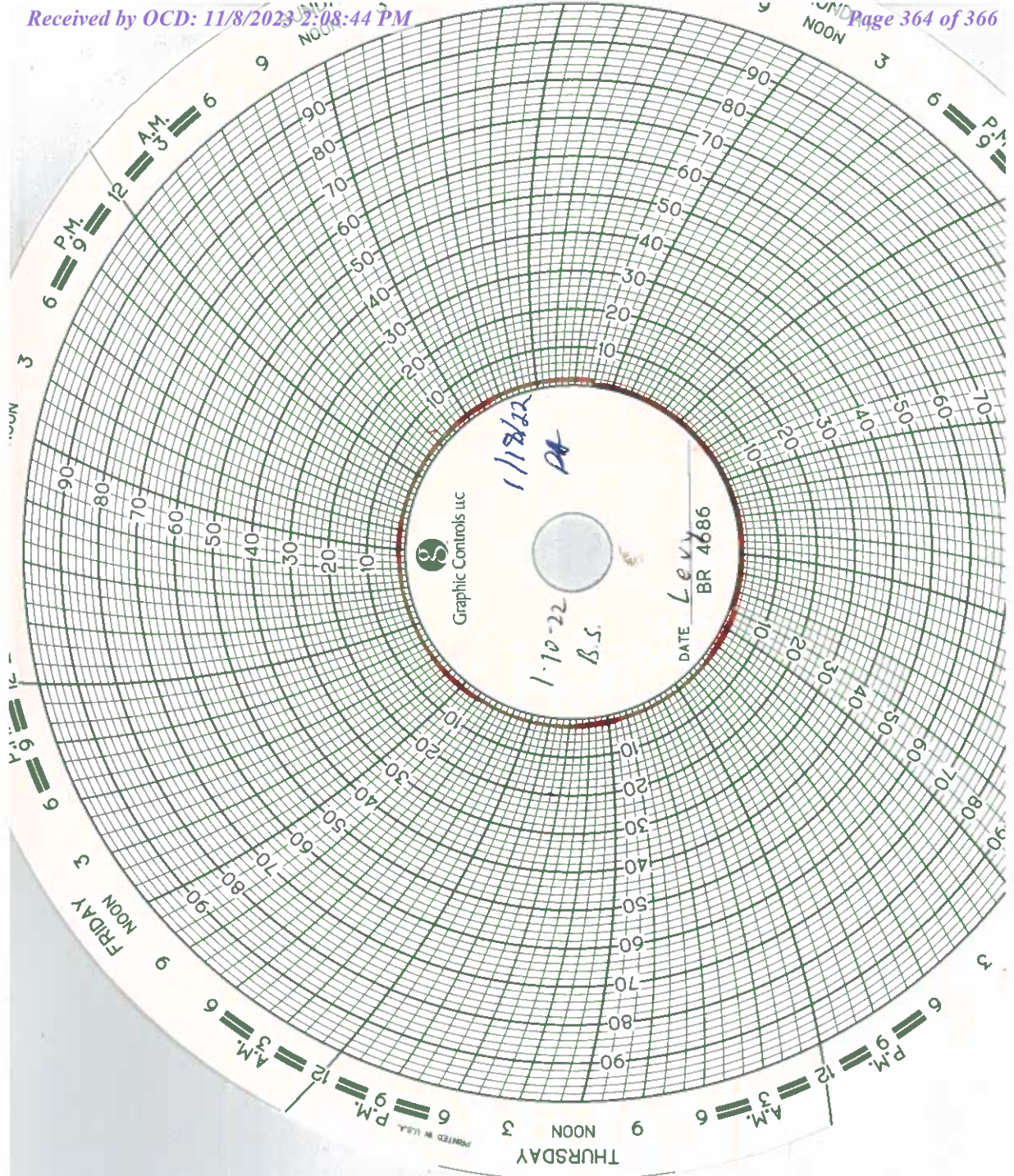
Sample Receipt Checklist

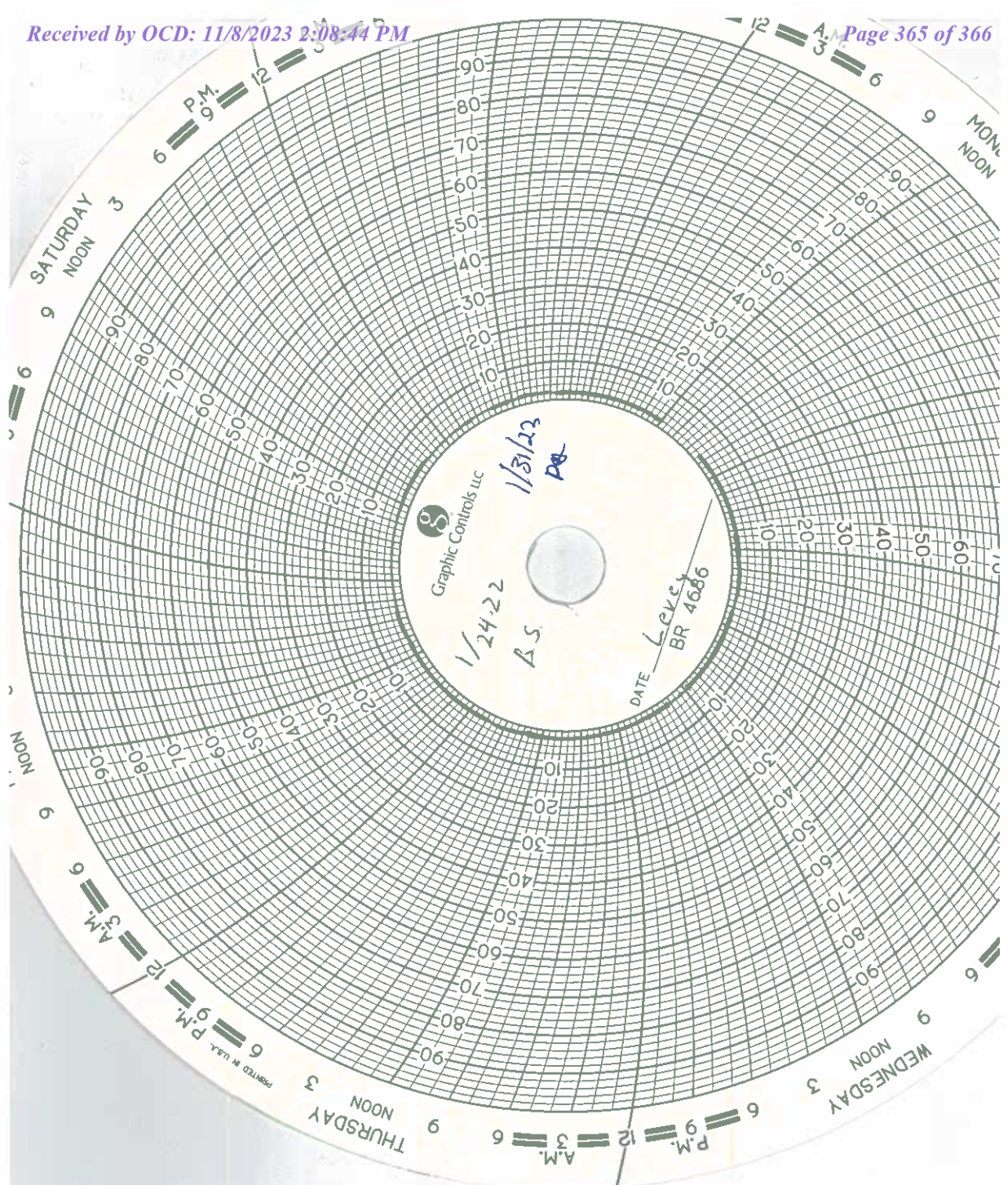
COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ Y ☐ N



APPENDIX D

Levey Well Pressure Reading Documentation





District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 284017

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 284017
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Accepted for the record	2/29/2024