

September 8, 2022

District 1 New Mexico Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240

Re: Closure Request Baseball Cap Federal 25P Incident Number NAPP2217836904 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this Closure Request to document site assessment and soil sampling activities performed at the Baseball Cap Federal 25P (Site; Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a condensate flare fire at the Site. Based on assessment activities and laboratory analytical results from the soil sampling event, COG is requesting closure for Incident Number NAPP2217836904.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 25, Township 24 South, Range 34 East, in Lea County, New Mexico (32.183792° N, 103.417283° W) and is associated with oil and gas exploration and production operations on privately owned surface managed by Quail Ranch, LLC.

On June 12, 2022, oil made its way up the flare stack resulting in the release of approximately 0.356 barrels (bbls) of condensate. No fluids were recovered due to the fire burning off any residual flammable fluids. COG reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) on June 13, 2022, and submitted a Release Notification Form C-141 (Form C-141) on June 27, 2022. The release was assigned Incident Number NAPP2217836904.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to *Table 1*, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 5 of the Form C-141 (Appendix A), Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) permitted well 321039103243402, located approximately 3,222 southeast of the Site. The groundwater well has

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 North Marienfeld Street | Midland, TX 79701 | ensolum.com Texas PG Firm No. 50588 | Texas PE Firm No. F-21843 COG Operating, LLC Closure Request Baseball Cap Federal 25P September 8, 2022

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a reported depth to groundwater of 139 feet bgs and an unknown total depth. Ground surface elevation at the groundwater well location is 3,347 feet above mean sea level (amsl), which is approximately 24-feet lower in elevation than the Site. In addition, there are 4 water wells within 2 miles of the Site that all have a recoreded depth to water of greater than 100 feet. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 2,178 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, and wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD *Table 1* Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

In addition to the the reclamation requirements and the NMOCD Closure Criteria, the Site has a Surface Use and Compensation Agreement (SUCA) with the private landowner. This SUCA states in addition to the above described siting criteria, soil within a reclamation area on the private surface will also have a Sodium Adsorbtion Ratio (SAR) of less than 2.0.

SITE ASSESSMENT ACTIVITIES

On July 27, 2022, site assessment activities were conducted to evaluate the release based on information provided on the Form C-141 and visual observations. No visible indications of the release or fire were observed. Five preliminary assessment soil samples (SS01 through SS05) were collected within the inferred release area at a depth of 0.2 feet bgs, to assess for the presence or absence of impacted soil resulting from the condensate flare fire. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit. A photograpgic log is included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to



COG Operating, LLC Closure Request Baseball Cap Federal 25P

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Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; chloride following EPA Method 300.0; and SAR following EPA method 29B.

ANALYTICAL RESULTS

Laboratory analytical results for preliminary assessment soil samples SS01 through SS05 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, chloride concentrations, and SAR values were compliant with the Site Closure Criteria, the most stringent of NMOCD Table 1 Closure Criteria, and the SUCA. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Appendix D.

CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the June 12, 2022, condensate flare fire. Laboratory analytical results for soil samples collected within the inferred release area indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, chloride concentrations, and SAR values were compliant with the Site Closure Criteria, compliant with the most stringent Table 1 Closure Criteria, and the SUCA. Additionally, no visible indications of the release or fire were observed.

Based on soil sample laboratory analytical results compliant with the most stringent Table 1 Closure Criteria and SUCA, impacted soil was not identified and as a result, excavation activities did not appear warranted related to the condensate fire. COG believes these remedial actions have been protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2217836904. The Final C-141 is included in Appendix A.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely, Ensolum, LLC

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Josh Adams, PG Project Geologist

cc: Charles Beauvais, COG Operating, LLC

Appendices:

Figure 1	Site Receptor Map
Figure 2	Preliminary Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Final C-141
Appendix B	Referenced Well Records
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody

Kalui Jenningz

ENSOLUM

Kalei Jennings Senior Scientist



FIGURES







TABLE

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E N S O L U M

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Baseball Cap Federal 25P COG Operating, LLC Lea County, New Mexico											
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	SAR**	Chloride (mg/kg)
NMOCD Table 1 Closure	Criteria (NMA	C 19.15.29)	10	50	NE	NE	NE	1,000	2,500	2.0	20,000
				Preliminary	Assessment	Soil Samples					
SS01*	7/27/2022	0.2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	0.209	20.0
SS02*	7/27/2022	0.2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	0.164	12.9
SS03*	7/27/2022	0.2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	0.177	11.9
SS04*	7/27/2022	0.2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	0.179	8.48
SS05*	7/27/2022	0.2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	0.108	10.8

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

SAR: Sodium adsorption ratio (unitless)

* indicates sample was collected in area to be reclaimed after remediation is complete

** Private Surface specific requirement



APPENDIX A

Final C141

Released to Imaging: 9/13/2022 10:56:45 AM

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2217836904
District RP	
Facility ID	fAPP2135130425
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137			
Contact Name	Charles Beauvais	Contact Telephone	(575) 988-2043			
Contact email	Charles.R.Beauvais@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2217836904			
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701					

Location of Release Source

Latitude

32.183792

Longitude -103.417283

(NAD 83 in decimal degrees to 5 decimal places)

Site Name		Baseball Ca	ap Federal 25	öΡ	Site Type Ta	ank Battery
Date Release	Discovered	June 12, 20)22		API# (if applicable)	
	(
Unit Letter	Section	Township	Range		County	

				Quail Banch I
Р	25	24S	34E	Lea
Unit Letter	Section	Township	Känge	County

Surface Owner: State Federal Tribal Private (Name: QUAII Ranch, LLC.

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)0.356	Volume Recovered (bbls)0
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by oil making its way up the stack igniting the flare. The release resulted in a flare fire on and off pad.

Received by	OCD: 7/5/2022	11:31:50 AM	of New Mexico
Form C-141		State	of New Mexico

Oil Conservation Division

Incident ID	NAPP2217836904
District RP	
Facility ID	fAPP2135130425
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? The release involved a fire.
Yes No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	as given by Charles Beauvais via e-mail June 13, 2022 at 3:20 pm to blm.gov and ocd.enviro@state.nm.us.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have <u>not</u> been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name. Brittany N. Esparza	Title: Environmental Technician
Signature:	$\underline{\text{Date:}} \frac{6/27/2022}{(432) 221-0398}$
OCD Only Jocelyn Harimon Received by:	Date:

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22	eived by OCD: 7/5/2022 11:31:50 AM actity Name & Number: Baseball Cap 25 P Battery						
Received by OCD:	7/5/2022 11:3/	1:50 AM lity Name & Number:	Baseball Cap 25 P	Battery		Page 3 of	
6:4			DELAWARE BASI		NAPP22178369	6904	
5 4	Rr	elease Discovery Date & Time:	6/12/2022 17:00				
M	COMPANY AND A	Release Type:	Oil				
	Provide any k	known details about the event:	FLARE FIRE				
	1940 - 2			Spill Calculation - Subsu	urface Spill - Rectangle		
	Was t/	the release on pad or off-pad?		200 P	See reference table	e below	
Hasit	rained at least a	a half inch in the last 24 hours?			See reference table	e below	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	
Rectangle A	300.0	50.0	0.02	8.00%	4.450	0.356	
Rectangle B					0.000	0.000	
Rectangle C					0.000	0.000	
Rectangle D					0.000	0.000	
Rectangle E					0.000	0.000	
Rectangle F					0.000	0.000	
Rectangle G					0.000	0.000	
Rectangle H					0.000	0.000	
Rectangle I		()			0.000	0.000	
Referised to Imagin	ag: 7/5/2022 1	•43•06 PM			0.000	0.000	
	8				Total Volume Release:	0.356	

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

WV 54:95:01 2202/E1/6 :Suispul of passala 14

CONDITIONS

Action 122658

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 122658
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By		Condition Date
jharimon	None	7/5/2022

Received by OCD: 9/9/2022 7:59:15 AM Form C-141 State of New Mexico

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 feet bgs
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗶 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🕅 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🔀 Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- \boxtimes Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 9/9/2022 7::	59:15 AM State of New Mexico				Page 15 of 4
Page 4 Oil Conservation Divisi				Incident ID	NAPP2217836904
		10n		District RP	
				Facility ID	
				Application ID	
regulations all operators are requ public health or the environment. failed to adequately investigate a addition, OCD acceptance of a C and/or regulations. Printed Name:Charles Signature:Charles R. Beauva email:Charles.R.Beauva		e notifications the OCD does a threat to grou tor of responsib Title: Date: _	and perform cc not relieve the indwater, surfa ility for compl	prrective actions for rele e operator of liability sh ce water, human health iance with any other fe ronmental Engineer	ases which may endanger ould their operations have or the environment. In
OCD Only Received by: Jocelyn Ha	rimon		Date: 09/	09/2022	

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Oil Conservation Division

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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: ____Charles Beauvais _____ Title: ____ Senior Environmental Engineer
 Signature:
 Charles R. Beauvais 11
 09/09/2022

email: ____ Charles.R.Beauvais@conocophillips.com _____ Telephone: __575-988-2043

OCD Only

Received by: _____ Jocelyn Harimon_____

Date: 09/09/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:	Date: 09/13/2022
Printed Name: Jennifer Nobui	Title: Environmental Specialist A



APPENDIX B

Referenced Well Record

USGS Home Contact USGS Search USGS



National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 ✔

 United States
 ✔

Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321039103243402

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321039103243402 24S.35E.30.342331

Lea County, New Mexico Latitude 32°10'39", Longitude 103°24'34" NAD27 Land-surface elevation 3,343 feet above NAVD88 The depth of the well is 176 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1970-12-08		D	62610		3201.64	NGVD29	1	Z		
1970-12-08		D	62611		3203.19	NAVD88	1	Z		
1970-12-08		D	72019	139.81			1	Z		
1976-01-15		D	62610		3202.27	NGVD29	1	Z		
1976-01-15		D	62611		3203.82	NAVD88	1	Z		
1976-01-15		D	72019	139.18			1	Z		
1981-03-20		D	62610		3201.85	NGVD29	1	Z		
1981-03-20		D	62611		3203.40	NAVD88	1	Z		
1981-03-20		D	72019	139.60			1	Z		

Explanation				
Section	Code	Description		
Water-level date-time accuracy	D	Date is accurate to the Day		
Parameter code	62610	Groundwater level above NGVD 1929, feet		
Parameter code	62611	Groundwater level above NAVD 1988, feet		

Released to Imaging: 9/13/2022 10:56:45 AM

Received by OCD: 9/9/2022 7:59:15 AM

Section	Code	Description
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-07-25 18:33:22 EDT 0.33 0.28 nadww01 USA.gov



APPENDIX C

Photographic Log





APPENDIX D

Laboratory Analytical Report

Received by OCD: 9/9/2022 7:59:15 AM

LINKS

Review your project results through

EOL

Have a Question?

www.eurofinsus.com/Env

Released to Imaging: 9/13/2022 10:56:45 AM

Visit us at:

Ask— The Expert

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2667-1

Laboratory Sample Delivery Group: Eddy County Client Project/Site: Baseball Cap 25P Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Josh Adams

RAMER

Authorized for release by: 9/1/2022 2:51:33 PM

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

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.

Laboratory Job ID: 890-2667-1 SDG: Eddy County

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QC Sample Results	11
QC Association Summary	14
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

			47
	Definitions/Glossary		
Client: Ensolu		Job ID: 890-2667-1	
Project/Site: E	Baseball Cap 25P	SDG: Eddy County	
Qualifiers			
GC VOA			
Qualifier	Qualifier Description		
*_	LCS and/or LCSD is outside acceptance limits, low biased.		5
S1-	Surrogate recovery exceeds control limits, low biased.		
U	Indicates the analyte was analyzed for but not detected.		2
GC Semi VO	Α		
Qualifier	Qualifier Description		
*+	LCS and/or LCSD is outside acceptance limits, high biased.		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
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		I
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 Practical Quantitation Limit PQL
- PRES Presumptive QC **Quality Control**
- Relative Error Ratio (Radiochemistry) RER
- Reporting Limit or Requested Limit (Radiochemistry) RL
- RPD Relative Percent Difference, a measure of the relative difference between two points
- TEF Toxicity Equivalent Factor (Dioxin)
- Toxicity Equivalent Quotient (Dioxin) TEQ
- TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Project/Site: Baseball Cap 25P

Job ID: 890-2667-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2667-1

Receipt

The samples were received on 7/27/2022 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-31011 and analytical batch 880-30959 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-30992 and analytical batch 880-31051 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 and precision for preparation batch 880-31016 and analytical batch 880-31319 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Narrative

Job Narrative 890-2667-2

Receipt

The samples were received on 7/27/2022 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Metals

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

Job ID: 890-2667-1 SDG: Eddy County

Client Sample Results

RL

Unit

D

Prepared

Client Sample ID: SS01 Date Collected: 07/27/22 10:00 Date Received: 07/27/22 16:40 Sample Depth: .2'

Analyte

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

Job ID: 890-2667-1 SDG: Eddy County

Analyzed

Matrix: Solid

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Analyte	Result	Quaimer	RL	Unit	U	Prepared	Analyzed	DIFac
Benzene	<0.00202	U *-	0.00202	mg/Kg		07/29/22 13:17	07/30/22 04:08	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/29/22 13:17	07/30/22 04:08	1
Ethylbenzene	<0.00202	U *-	0.00202	mg/Kg		07/29/22 13:17	07/30/22 04:08	1
m-Xylene & p-Xylene	<0.00403	U *-	0.00403	mg/Kg		07/29/22 13:17	07/30/22 04:08	1
p-Xylene	<0.00202	U	0.00202	mg/Kg		07/29/22 13:17	07/30/22 04:08	1
Xylenes, Total	< 0.00403		0.00403	mg/Kg			07/30/22 04:08	1
- y.c., .c.a.	0.00100	•	0.00100			0.720722 .0	0.700/22 0.000	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			07/29/22 13:17	07/30/22 04:08	1
1,4-Difluorobenzene (Surr)	100		70 - 130			07/29/22 13:17	07/30/22 04:08	1
Method: Total BTEX - Total B	FEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	mg/Kg			07/30/22 18:57	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (G	iC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/31/22 10:27	1
Method: 8015B NM - Diesel R			GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/29/22 11:03	07/30/22 14:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		07/29/22 11:03	07/30/22 14:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/29/22 11:03	07/30/22 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			07/29/22 11:03	07/30/22 14:47	1
o-Terphenyl	119		70 - 130			07/29/22 11:03	07/30/22 14:47	1
Method: 300.0 - Anions, Ion C	hromatogra	iphy - Solu	ble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.0		5.01	mg/Kg			08/04/22 10:29	1
Method: 29B SAR - Sodium A	deorntion R	atio						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.209		0.100	NONE		08/30/22 10:01	09/01/22 14:45	1
-						Lab Camp		0007.0
Client Sample ID: SS02						Lab Samp	le ID: 890-2	
ate Collected: 07/27/22 10:10 ate Received: 07/27/22 16:40 ample Depth: .2'							watrix	: Solid
Method: 8021B - Volatile Orga	nic Compo	unds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200		0.00200	mg/Kg		07/29/22 13:17	07/30/22 06:59	1
Toluene	< 0.00200		0.00200	mg/Kg			07/30/22 06:59	1
	-0.00200	-	0.00200				07/00/22 00:00	1

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07/29/22 13:17 07/30/22 06:59

07/29/22 13:17 07/30/22 06:59

07/29/22 13:17 07/30/22 06:59

Ethylbenzene

o-Xylene

m-Xylene & p-Xylene

0.00200

0.00400

0.00200

mg/Kg

mg/Kg

mg/Kg

<0.00200 U*-

<0.00400 U*-

<0.00200 U

1

1

1

Client Sample Results

RL

Unit

Client: Ensolum Project/Site: Baseball Cap 25P

Client Sample ID: SS02 Date Collected: 07/27/22 10:10

Analyte

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Result Qualifier

Job ID: 890-2667-1 SDG: Eddy County

Lab Sample ID: 890-2667-2

Analyzed

Prepared

D

Matrix: Solid

67-2 Solid	
	5
Dil Fac 1	
Dil Fac 1	
1	8
Dil Fac	9
I	
Dil Fac 1	
Dil Fac 1	1:

Analyte	Result	Quaimer		Unit		Fiepaieu	Analyzeu	Dirrac
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/29/22 13:17	07/30/22 06:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			07/29/22 13:17	07/30/22 06:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130			07/29/22 13:17	07/30/22 06:59	1
Method: Total BTEX - Total B	FEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			07/30/22 18:57	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/31/22 10:27	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/29/22 11:03	07/30/22 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		07/29/22 11:03	07/30/22 15:08	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/29/22 11:03	07/30/22 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			07/29/22 11:03	07/30/22 15:08	1
o-Terphenyl	126		70 - 130			07/29/22 11:03	07/30/22 15:08	1
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.9		5.01	mg/Kg			08/04/22 10:37	1
Method: 29B SAR - Sodium A	dsorption R	atio						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.164		0.100	NONE		08/30/22 10:01	09/01/22 14:45	1
lient Sample ID: SS03						Lab Samp	le ID: 890-2	667-3
ate Collected: 07/27/22 10:20								: Solid
							in a line	

Date Collected: 07/27/22 10:20 Date Received: 07/27/22 16:40

Sample Depth: .2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200	mg/Kg		07/29/22 13:17	07/30/22 07:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/29/22 13:17	07/30/22 07:20	1
Ethylbenzene	<0.00200	U *-	0.00200	mg/Kg		07/29/22 13:17	07/30/22 07:20	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399	mg/Kg		07/29/22 13:17	07/30/22 07:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/29/22 13:17	07/30/22 07:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/29/22 13:17	07/30/22 07:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			07/29/22 13:17	07/30/22 07:20	1
1,4-Difluorobenzene (Surr)	4	S1-	70 - 130			07/29/22 13:17	07/30/22 07:20	1

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Client: Ensolum

Client Sample Results

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3 4 5

Job ID: 890-2667-1 SDG: Eddy County

Client Sample ID: SS03 Date Collected: 07/27/22 10:20 Date Received: 07/27/22 16:40 Sample Depth: .2'					Lab Sample ID: 890-2667-3 Matrix: Solid					
Method: Total BTEX - Total B1	FX Calcula	tion								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Total BTEX	<0.00399	U	0.00399	mg/Kg		·	07/30/22 18:57	1		
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	SC)							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Total TPH	<50.0	U	50.0	mg/Kg			07/31/22 10:27	1		
Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)							
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/29/22 11:03	07/30/22 15:51	1		
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		07/29/22 11:03	07/30/22 15:51	1		
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/29/22 11:03	07/30/22 15:51	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
1-Chlorooctane	104		70 - 130			07/29/22 11:03	07/30/22 15:51	1		
o-Terphenyl	128		70 - 130			07/29/22 11:03	07/30/22 15:51	1		
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ble							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	11.9		5.00	mg/Kg			08/04/22 11:01	1		
Method: 29B SAR - Sodium A	dsorption R	atio								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Sodium Adsorption Ratio	0.177		0.100	NONE		08/30/22 10:01	09/01/22 14:45	1		
Client Sample ID: SS04 Date Collected: 07/27/22 10:30 Date Received: 07/27/22 16:40						Lab Samp	le ID: 890-2 Matrix	2667-4 (: Solid		

Sample Depth: .2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U *-	0.00199	mg/Kg		07/29/22 13:17	07/30/22 07:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/29/22 13:17	07/30/22 07:40	1
Ethylbenzene	<0.00199	U *-	0.00199	mg/Kg		07/29/22 13:17	07/30/22 07:40	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398	mg/Kg		07/29/22 13:17	07/30/22 07:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/29/22 13:17	07/30/22 07:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/29/22 13:17	07/30/22 07:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			07/29/22 13:17	07/30/22 07:40	1
1,4-Difluorobenzene (Surr)	100		70 - 130			07/29/22 13:17	07/30/22 07:40	1
Method: Total BTEX - Tota	I BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/30/22 18:57	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	mg/Kg			07/31/22 10:27	

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Client Sample Results

Client: Ensolum Project/Site: Baseball Cap 25P

Client Sample ID: SS04

Date Collected: 07/27/22 10:30 Date Received: 07/27/22 16:40

Sample Depth: .2'

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/29/22 11:03	07/30/22 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		07/29/22 11:03	07/30/22 16:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/29/22 11:03	07/30/22 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			07/29/22 11:03	07/30/22 16:13	1
o-Terphenyl	124		70 - 130			07/29/22 11:03	07/30/22 16:13	1
Method: 300.0 - Anions, Ion C	;hromatogra	iphy - Soli	uble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.48		5.00	mg/Kg			08/04/22 11:09	1
Method: 29B SAR - Sodium A								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.179		0.100	NONE		08/30/22 10:01	09/01/22 14:45	1
Client Sample ID: SS05 Date Collected: 07/27/22 10:40 Date Received: 07/27/22 16:40 Sample Depth: .2'							le ID: 890-2 Matrix	: Solid
Method: 8021B - Volatile Orga)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201	mg/Kg		07/29/22 13:17	07/30/22 08:01	1
Toluene	<0.00201		0.00201	mg/Kg		07/29/22 13:17	07/30/22 08:01	1
Ethylbenzene	<0.00201	U *-	0.00201	mg/Kg		07/29/22 13:17	07/30/22 08:01	1
m-Xylene & p-Xylene	<0.00402	U *-	0.00402	mg/Kg		07/29/22 13:17	07/30/22 08:01	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/29/22 13:17	07/30/22 08:01	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/29/22 13:17	07/30/22 08:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/30/22 08:01	1
1,4-Difluorobenzene (Surr)	101		70 - 130			07/29/22 13:17	07/30/22 08:01	1
Method: Total BTEX - Total BT			DI	11		Dranavad	Analyzad	
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402		0.00402	mg/Kg			07/30/22 18:57	1
Method: 8015 NM - Diesel Ran Analyte		S (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	mg/Kg		·	07/31/22 10:27	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/29/22 11:03	07/30/22 16:34	1
Diesel Range Organics (Over	<49.9	U *+	49.9	mg/Kg		07/29/22 11:03	07/30/22 16:34	1

1

07/29/22 11:03 07/30/22 16:34

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Job ID: 890-2667-1 SDG: Eddy County

Lab Sample ID: 890-2667-4

Matrix: Solid

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<49.9 U

C10-C28)

Oll Range Organics (Over C28-C36)

49.9

mg/Kg

5

Client Sample Results

Job ID: 890-2667-1 SDG: Eddy County

Matrix: Solid

Lab Sample ID: 890-2667-5

Client Sample ID: SS05 Date Collected: 07/27/22 10:40 Date Received: 07/27/22 16:40 Sample Depth: .2'

Project/Site: Baseball Cap 25P

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			07/29/22 11:03	07/30/22 16:34	1
o-Terphenyl	131 3	S1+	70 - 130			07/29/22 11:03	07/30/22 16:34	1
Method: 300.0 - Anions, Io	n Chromatograp	ohy - Solu	ble					
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	10.8		4.96	mg/Kg			08/04/22 11:32	1
Chloride		atio	4.96	mg/Kg			08/04/22 11:32	1
Chloride Method: 29B SAR - Sodiur Analyte			4.96	mg/Kg Unit	D	Prepared	08/04/22 11:32 Analyzed	1 Dil Fac

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Released to Imaging: 9/13/2022 10:56:45 AM

Surrogate Summary

Client: Ensolum Project/Site: Baseball Cap 25P

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

			Percent Surrogate Recovery (Acceptance Limits)				
		BFB1	DFBZ1				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
890-2667-1	SS01	98	100				
890-2667-2	SS02	106	101				
890-2667-3	SS03	105	4 S1-				
890-2667-4	SS04	102	100				
890-2667-5	SS05	109	101				
LCS 880-31011/1-A	Lab Control Sample	104	97				
LCSD 880-31011/2-A	Lab Control Sample Dup	104	99				
MB 880-30988/5-A	Method Blank	95	101				
MB 880-31011/5-A	Method Blank	96	101				

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

			Perce	ent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2667-1	SS01	107	119	
890-2667-2	SS02	109	126	
890-2667-3	SS03	104	128	
890-2667-4	SS04	103	124	
890-2667-5	SS05	104	131 S1+	
LCS 880-30992/2-A	Lab Control Sample	115	110	
LCSD 880-30992/3-A	Lab Control Sample Dup	118	117	
MB 880-30992/1-A	Method Blank	101	115	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Prep Type: Total/NA

Eurofins Carlsbad

QC Sample Results

Client: Ensolum Project/Site: Baseball Cap 25P

Lab Sample ID: MB 880-30988/5-A

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 30959							Prep Type: To Prep Batch:	
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/29/22 10:52	07/29/22 13:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/29/22 10:52	07/29/22 13:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/29/22 10:52	07/29/22 13:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/29/22 10:52	07/29/22 13:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/29/22 10:52	07/29/22 13:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/29/22 10:52	07/29/22 13:46	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			07/29/22 10:52	07/29/22 13:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130			07/29/22 10:52	07/29/22 13:46	1
Lab Sample ID: MB 880-310 Matrix: Solid	011/5-A					Client Samp	ole ID: Method Prep Type: To	

Analysis Batch: 30959

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/29/22 13:17	07/30/22 01:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/29/22 13:17	07/30/22 01:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/29/22 13:17	07/30/22 01:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/29/22 13:17	07/30/22 01:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/29/22 13:17	07/30/22 01:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/29/22 13:17	07/30/22 01:37	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			07/29/22 13:17	07/30/22 01:37	1
1,4-Difluorobenzene (Surr)	101		70 - 130			07/29/22 13:17	07/30/22 01:37	1

Lab Sample ID: LCS 880-31011/1-A Matrix: Solid Analysis Batch: 30959

	Spike	LCS L	_cs				%Rec	
Analyte	Added	Result C	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07777		mg/Kg		78	70 - 130	
Toluene	0.100	0.09255		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.08154		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	0.200	0.1658		mg/Kg		83	70 - 130	
o-Xylene	0.100	0.09992		mg/Kg		100	70 - 130	
о-хуюне	0.100	0.09992		mg/ng		100	10-130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-31011/2-A			C	Client Sa	mple	ID: Lat	Control		
Matrix: Solid							Prep Ty	pe: Tot	al/NA
Analysis Batch: 30959							Prep E	Batch:	31011
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.06253	*_	mg/Kg		63	70 - 130	22	35

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

Job ID: 890-2667-1

SDG: Eddy County

Prep Batch: 31011

07/29/22 13:17 07/30/22 01:37 101 70 - 130 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 31011

QC Sample Results

Client: Ensolum Project/Site: Baseball Cap 25P

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 30959	31011/2-A								lient Sa	mp	ole	ID: Lab	Control Prep Ty Prep E	pe: To	tal/NA 31011
				Spike			LCSD				_	~-	%Rec		RPD
Analyte				Added			Quali	fier	Unit		D	%Rec	Limits	RPD	Limit
Toluene				0.100		7063			mg/Kg			71	70 - 130	27	35
Ethylbenzene				0.100		6380			mg/Kg			64	70 - 130	24	35
m-Xylene & p-Xylene				0.200		1309	*-		mg/Kg			65	70 - 130	24	35
o-Xylene				0.100	0.07	7995			mg/Kg			80	70 - 130	22	35
	LCSD	LCS	SD												
Surrogate	%Recovery			Limits											
4-Bromofluorobenzene (Surr)	104			70 - 130											
1,4-Difluorobenzene (Surr)	99			70 - 130											
lethod: 8015B NM - Die	sel Rang	e (Organio	s (DRO)) (GC	C)									
Lab Sample ID: MB 880-309	92/1-A									C	Clie	nt Samp	ole ID: M	ethod	Blank
Matrix: Solid													Prep Ty		
Analysis Batch: 31051													Prep E	•	
		MB	МВ												
Analyte	Res	sult	Qualifier	1	RL		ι	Jnit	ſ	C	Pr	epared	Analy	zed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<5	50.0	U	50	0.0		n	ng/K	g -	()7/2	9/22 11:03	07/30/22	10:06	
Diesel Range Organics (Over C10-C28)	<5	50.0	U	50	0.0		n	ng/K	g	()7/2	9/22 11:03	07/30/22	10:06	
Oll Range Organics (Over C28-C36)	<5	50.0	U	50	0.0		n	ng/K	g	()7/2	9/22 11:03	07/30/22	10:06	
			MB												
Surrogate			Qualifier	Limits						_		repared	Analy		Dil Fac
1-Chlorooctane		101		70 - 13						(07/2	9/22 11:03	07/30/22	10:06	
o-Terphenyl		115		70 - 13	0					(07/2	9/22 11:03	07/30/22	10:06	1
Lab Sample ID: LCS 880-30	992/2-A								Clie	nt \$	San	nple ID:	Lab Cor	ntrol S	ample
Matrix: Solid													Prep Ty	pe: To	tal/NA
Analysis Batch: 31051													Prep E	Batch:	30992
-				Spike		LCS	LCS						%Rec		
Analyte				Added	Re	sult	Qualit	fier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000		1068			mg/Kg			107	70 - 130		
(GRO)-C6-C10															
Diesel Range Organics (Over C10-C28)				1000		1467	*+		mg/Kg			147	70 - 130		
	LCS	LCS	5												
Surrogate	%Recovery	Qua	lifier	Limits											
1-Chlorooctane	115			70 - 130											
o-Terphenyl	110			70 - 130											
Lab Sample ID: LCSD 880-3	80992/3-A							C	lient Sa	mp	ole	ID: Lab	Control	Sampl	e Dur
Matrix: Solid													Prep Ty	pe: To	tal/NA
Analysis Batch: 31051													Prep E	-	
· · · · · · · · · · · · · · · · · · ·				Snike	1.4	CSD	LCSD						%Rec		RP

Analysis Batch: 31051							Prep E	atch:	30992
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1074		mg/Kg		107	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1539	*+	mg/Kg		154	70 - 130	5	20
C10-C28)									

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QC Sample Results

esults

Client: Ensolum Project/Site: Baseball Cap 25P

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

Lab Sample ID: LCSD 880- Matrix: Solid Analysis Batch: 31051	30992/3-A				C	Client Sa	mple	ID: Lat	o Control Prep Ty Prep B		tal/NA
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	118		70 - 130	-							
o-Terphenyl	117		70 - 130								
Method: 300.0 - Anions	, Ion Chro	omatograp	ohy								
Lab Sample ID: MB 880-31	016/1-A						Clie	ent San	nple ID: M	ethod	Blank
Matrix: Solid									Prep T		
Analysis Batch: 31319										,	
· ····· , ··· · · · · · · · · ·		МВ МВ									
Analyte	Re	sult Qualifier		RL	Unit		D P	repared	Analy	zed	Dil Fac
Chloride		5.00 U		5.00	mg/K				08/04/22		1
				0.00		9			00/01/22	00.20	•
Lab Sample ID: LCS 880-3 Matrix: Solid	1016/2-A					Clie	nt Sa	mple ID	: Lab Coi Prep T		
									Fiebi	ype. Si	oluble
Analysis Batch: 31319			Spike		LCS				%Rec		
Analyta			Added			11	D	%Rec	Limits		
Analyte Chloride			250		t Qualifier	Unit		99	90 - 110		
Chiolide			250	247.		mg/Kg		99	90-110		
Lab Sample ID: LCSD 880-	31016/3-4				6	lient Sa	mnle	ID· I at	o Control	Sampl	e Dun
Matrix: Solid							inpic	ID. Lui	Prep T		
Analysis Batch: 31319									перт	ype. o	oluble
Analysis Datch. 51515			Spike	1.095	LCSD				%Rec		RPD
Analyte			Added		t Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	247.0				99	90 - 110	0	20
Chionae			250	247.0)	mg/Kg		99	90 - 110	0	20
Lab Sample ID: 890-2667-2	MS							C	lient Sam		5502
Matrix: Solid								Ŭ	Prep T		
Analysis Batch: 31319									перт	ype. o	oluble
Analysis Batch. 51515	Sampla	Sample	Spike	м	S MS				%Rec		
Analyta	•	Qualifier	Added		t Qualifier	Unit	D	%Rec	Limits		
Analyte Chloride	12.9	Quaimer	251	266.4				101	90 - 110		
Chiolide	12.9		201	200.2	ł	mg/Kg		101	90-110		
Lab Sample ID: 890-2667-2	MSD							С	lient Sam	•	
Matrix: Solid									Prep T	ype: So	oluble
Analysis Batch: 31319											
	•	Sample	Spike	MSE	MSD				%Rec		RPD
Analyte		Qualifier	Added		t Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	12.9		251	265.9				101	90 - 110	0	20

QC Association Summary

Client: Ensolum Project/Site: Baseball Cap 25P Job ID: 890-2667-1 SDG: Eddy County

GC VOA

Analysis Batch: 30959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2667-1	SS01	Total/NA	Solid	8021B	31011
890-2667-2	SS02	Total/NA	Solid	8021B	31011
890-2667-3	SS03	Total/NA	Solid	8021B	31011
890-2667-4	SS04	Total/NA	Solid	8021B	31011
890-2667-5	SS05	Total/NA	Solid	8021B	31011
MB 880-30988/5-A	Method Blank	Total/NA	Solid	8021B	30988
MB 880-31011/5-A	Method Blank	Total/NA	Solid	8021B	31011
LCS 880-31011/1-A	Lab Control Sample	Total/NA	Solid	8021B	31011
LCSD 880-31011/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31011
Prep Batch: 30988					

Lab Sample ID
MB 880-30988/5-AClient Sample ID
Method BlankPrep Type
Total/NAMatrix
SolidMethodPrep Batch

Prep Batch: 31011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2667-1	SS01	Total/NA	Solid	5035		
890-2667-2	SS02	Total/NA	Solid	5035		
890-2667-3	SS03	Total/NA	Solid	5035		
890-2667-4	SS04	Total/NA	Solid	5035		
890-2667-5	SS05	Total/NA	Solid	5035		
MB 880-31011/5-A	Method Blank	Total/NA	Solid	5035		
LCS 880-31011/1-A	Lab Control Sample	Total/NA	Solid	5035		
LCSD 880-31011/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		

Analysis Batch: 31076

Lab Sample ID 890-2667-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-2667-2	SS02	Total/NA	Solid	Total BTEX	
890-2667-3	SS03	Total/NA	Solid	Total BTEX	
890-2667-4	SS04	Total/NA	Solid	Total BTEX	
890-2667-5	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 30992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2667-1	SS01	Total/NA	Solid	8015NM Prep	
890-2667-2	SS02	Total/NA	Solid	8015NM Prep	
890-2667-3	SS03	Total/NA	Solid	8015NM Prep	
890-2667-4	SS04	Total/NA	Solid	8015NM Prep	
890-2667-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-30992/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30992/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30992/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2667-1	SS01	Total/NA	Solid	8015B NM	30992
890-2667-2	SS02	Total/NA	Solid	8015B NM	30992
890-2667-3	SS03	Total/NA	Solid	8015B NM	30992

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QC Association Summary

Client: Ensolum Project/Site: Baseball Cap 25P

GC Semi VOA (Continued)

Analysis Batch: 31051 (Continued)

SS05

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2667-4	SS04	Total/NA	Solid	8015B NM	30992
890-2667-5	SS05	Total/NA	Solid	8015B NM	30992
MB 880-30992/1-A	Method Blank	Total/NA	Solid	8015B NM	30992
LCS 880-30992/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30992
LCSD 880-30992/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30992

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix
890-2667-1	SS01	Total/NA	Solid
890-2667-2	SS02	Total/NA	Solid
890-2667-3	SS03	Total/NA	Solid
890-2667-4	SS04	Total/NA	Solid

890-2667-5

Leach Batch: 31016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2667-1	SS01	Soluble	Solid	DI Leach	/
890-2667-2	SS02	Soluble	Solid	DI Leach	
890-2667-3	SS03	Soluble	Solid	DI Leach	
890-2667-4	SS04	Soluble	Solid	DI Leach	
890-2667-5	SS05	Soluble	Solid	DI Leach	
MB 880-31016/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31016/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31016/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2667-2 MS	SS02	Soluble	Solid	DI Leach	
890-2667-2 MSD	SS02	Soluble	Solid	DI Leach	

Total/NA

Solid

Analysis Batch: 31319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2667-1	SS01	Soluble	Solid	300.0	31016
890-2667-2	SS02	Soluble	Solid	300.0	31016
890-2667-3	SS03	Soluble	Solid	300.0	31016
890-2667-4	SS04	Soluble	Solid	300.0	31016
890-2667-5	SS05	Soluble	Solid	300.0	31016
MB 880-31016/1-A	Method Blank	Soluble	Solid	300.0	31016
LCS 880-31016/2-A	Lab Control Sample	Soluble	Solid	300.0	31016
LCSD 880-31016/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31016
890-2667-2 MS	SS02	Soluble	Solid	300.0	31016
890-2667-2 MSD	SS02	Soluble	Solid	300.0	31016

Metals

Prep Batch: 67132

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2667-1	SS01	Total/NA	Solid	29B	
890-2667-2	SS02	Total/NA	Solid	29B	
890-2667-3	SS03	Total/NA	Solid	29B	
890-2667-4	SS04	Total/NA	Solid	29B	
890-2667-5	SS05	Total/NA	Solid	29B	

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Prep Batch

Method 8015 NM 8015 NM 8015 NM 8015 NM

8015 NM

Job ID: 890-2667-1

SDG: Eddy County

QC Association Summary

Client: Ensolum Project/Site: Baseball Cap 25P Job ID: 890-2667-1 SDG: Eddy County

Metals

Prep Batch: 67360

rep Batch: 67360					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-2667-1	SS01	Total/NA	Solid	29B	67132
390-2667-2	SS02	Total/NA	Solid	29B	67132
390-2667-3	SS03	Total/NA	Solid	29B	67132
390-2667-4	SS04	Total/NA	Solid	29B	67132
390-2667-5	SS05	Total/NA	Solid	29B	67132

Analysis Batch: 67564

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	8
890-2667-1	SS01	Total/NA	Solid	29B SAR	67360	
890-2667-2	SS02	Total/NA	Solid	29B SAR	67360	9
890-2667-3	SS03	Total/NA	Solid	29B SAR	67360	
890-2667-4	SS04	Total/NA	Solid	29B SAR	67360	
890-2667-5	SS05	Total/NA	Solid	29B SAR	67360	
-						
						13

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Lab Chronicle

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Job ID: 890-2667-1 SDG: Eddy County

Lab Sample ID: 890-2667-1 Matrix: Solid

Client Sample ID: SS01 Date Collected: 07/27/22 10:00 Date Received: 07/27/22 16:40

Project/Site: Baseball Cap 25P

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	31011	07/29/22 13:17	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30959	07/30/22 04:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31076	07/30/22 18:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			31105	07/31/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30992	07/29/22 11:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31051	07/30/22 14:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	31016	07/29/22 14:03	SMC	XEN MID
Soluble	Analysis	300.0		1			31319	08/04/22 10:29	СН	XEN MID
Total/NA	Prep	29B			80 g	80 g	67132	08/30/22 10:01	РВ	EET HOU
Total/NA	Prep	29B			80 g	80 mL	67360	08/31/22 12:57	PB	EET HOU
Total/NA	Analysis	29B SAR		1			67564	09/01/22 14:45	DP	EET HOU

Client Sample ID: SS02 Date Collected: 07/27/22 10:10

Date Received: 07/27/22 16:40

Lab Sample ID: 890-2667-2 Matrix: Solid

Lab Sample ID: 890-2667-3

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	31011	07/29/22 13:17	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30959	07/30/22 06:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31076	07/30/22 18:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			31105	07/31/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30992	07/29/22 11:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31051	07/30/22 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	31016	07/29/22 14:03	SMC	XEN MID
Soluble	Analysis	300.0		1			31319	08/04/22 10:37	СН	XEN MID
Total/NA	Prep	29B			85 g	85 g	67132	08/30/22 10:01	PB	EET HOU
Total/NA	Prep	29B			85 g	85 mL	67360	08/31/22 12:57	PB	EET HOU
Total/NA	Analysis	29B SAR		1			67564	09/01/22 14:45	DP	EET HOU

Client Sample ID: SS03 Date Collected: 07/27/22 10:20 Date Received: 07/27/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31011	07/29/22 13:17	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30959	07/30/22 07:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31076	07/30/22 18:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			31105	07/31/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30992	07/29/22 11:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31051	07/30/22 15:51	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	31016	07/29/22 14:03	SMC	XEN MID
Soluble	Analysis	300.0		1			31319	08/04/22 11:01	СН	XEN MID
Total/NA	Prep	29B			80 g	80 g	67132	08/30/22 10:01	PB	EET HOU
Total/NA	Prep	29B			80 g	80 mL	67360	08/31/22 12:57	PB	EET HOU
Total/NA	Analysis	29B SAR		1			67564	09/01/22 14:45	DP	EET HOU

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Lab Chronicle

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Job ID: 890-2667-1 SDG: Eddy County

Lab Sample ID: 890-2667-4 Matrix: Solid

Client Sample ID: SS04 Date Collected: 07/27/22 10:30 Date Received: 07/27/22 16:40

Project/Site: Baseball Cap 25P

Client: Ensolum

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31011	07/29/22 13:17	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30959	07/30/22 07:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31076	07/30/22 18:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			31105	07/31/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30992	07/29/22 11:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31051	07/30/22 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	31016	07/29/22 14:03	SMC	XEN MID
Soluble	Analysis	300.0		1			31319	08/04/22 11:09	СН	XEN MID
Total/NA	Prep	29B			80 g	80 g	67132	08/30/22 10:01	РВ	EET HOU
Total/NA	Prep	29B			80 g	80 mL	67360	08/31/22 12:57	PB	EET HOU
Total/NA	Analysis	29B SAR		1			67564	09/01/22 14:45	DP	EET HOU

Client Sample ID: SS05 Date Collected: 07/27/22 10:40

Date Received: 07/27/22 16:40

Lab Sample ID: 890-2667-5 Matrix: Solid

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31011	07/29/22 13:17	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30959	07/30/22 08:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31076	07/30/22 18:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			31105	07/31/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30992	07/29/22 11:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31051	07/30/22 16:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31016	07/29/22 14:03	SMC	XEN MID
Soluble	Analysis	300.0		1			31319	08/04/22 11:32	СН	XEN MID
Total/NA	Prep	29B			75 g	75 g	67132	08/30/22 10:01	PB	EET HOU
Total/NA	Prep	29B			75 g	75 mL	67360	08/31/22 12:57	PB	EET HOU
Total/NA	Analysis	29B SAR		1			67564	09/01/22 14:45	DP	EET HOU

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

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tineation Summary	Job ID: 890-2667-1 SDG: Eddy County	
ch accreditation/certification below.		

Client: Ensolum
Project/Site: Baseball Cap 25P

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under ea **Expiration Date** Authority Program **Identification Number** Texas NELAP T104704215-22-47 06-30-23 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23
The following analytes are included in this the agency does not offer certification.	report, but the laboratory is not	t certified by the governing authority.	

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum Project/Site: Baseball Cap 25P Job ID: 890-2667-1 SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Ensolum Project/Site: Baseball Cap 25P

Job ID: 890-2667-1
SDG: Eddy County

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2667-1	SS01	Solid	07/27/22 10:00	07/27/22 16:40	.2'
890-2667-2	SS02	Solid	07/27/22 10:10	07/27/22 16:40	.2'
890-2667-3	SS03	Solid	07/27/22 10:20	07/27/22 16:40	.2'
890-2667-4	SS04	Solid	07/27/22 10:30	07/27/22 16:40	.2'
890-2667-5	SS05	Solid	07/27/22 10:40	07/27/22 16:40	.2'

Program: UST/PST PRP Br State of Project:	Reporting: Level II Level III PST/UST Deliverables: EDD ADaPT	ANALYSIS REQUEST	X one: NO	Cool:	H ₃ PO ₄ : HP NaHSO 4: NABIS Na 25 203: NASO	890-2657 Chain of Custody Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC					Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn Pb Mn Mo Ni Se Ag Tl U	llent company to Eurofins Xenco, its sfilliates and subcontractors. It assigns standard terms and conditions for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Relinquished by: (Signature) Received by: (Signature)	
i Jenings						390-2667 Chain of Custo					Cu Fe Pb Mg Mr 2b Mn Mo Ni Se A	assigns standard terms and te circumstand te contrumstances beyond the will be enforced unless previous to the circumstances of the circmate of the	ed by: (Signature)	
Ense	e ZIP: JANDine S.D. CASEburt . Co.M.					Ha X3_1 74	1				AI Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo N CRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	fins Xenco, its affiliates and subcontractors. It ses Incurred by the client if such losses are du urofins Xenco, but not analyzed. These terms	Date/Time Relinquishe	() al ecte
Bill to: lif different) Company Name: VS H Address:	Email: K Jonnine	Around	Routine Rush Code	Due Date: TAT starts the day received by the lab. if received by 4:30pm	Parameters Parameters actor: -0.0	e Reading:	Time Depth Grab/ #of Sampled Comp Cont	1 1 1 1 0001	V mart		13PPM Texas 11 AI 5 1P / SPLP 6010 : 8RCRA	ralld purchase order from client company to Euro assume any responsibility for any losses or expen nd a charge of \$5 for each sample submitted to E	by: (Signature)	Dar Staf 71
Tash Hours Ensolun 3122 Narional F	(2012) 203-5/7-8437	Baseball	asprostoler	Edy Court	Temp Blank: Kes No Yes No NiA	Yes No N/A	Matrix	3 7.27	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			f this document and relinquishment of samples constitutes a v Xenco will be liable only for the cost of samples and shall nots. A minimum charge of \$85.00 will be applied to each project an	ned by: (Signature) Received b	Amero
0	Ensolun 3122 Narious P	ny Name: Ersolum :: 3122 Nar ste ZIP: 64 (5) ad 303-517	Ny Name: Ensolum 	NAME: Ersolun 122 Norrana Park ate 21P: Carlsbad NN ate 21P: 303-5/7-8437 Name: O3D 2024062 Number: O3D 2024062	Ny Name: Ersolun 12 Narrian Pack ate ZIP: Ersolun Ate ZIP: Ersolun Ate ZIP: Arsolun 303-5/7-8437 Name: Caste ball Cap 257 Number: C3D 2024042 Number: C3D 2024042 Location: Cally Count	Ny Name: Ensolut Start Narriana Pack ate ZIP: Alabed N/N ate ZIP: Alabed N/N Name: Sas-5/7-8431 Name: O3D 2024062 Number: O3D 202407 Number: O3D 2024	Ny Name: Ensolution Start Natrian Pack ate ZIP: Subbad N/N Ame: Subbad N/N Number: Subbal Co25P Number: C3D 2024Cl22 P Number: C3D 2024Cl22 P Number: C3D 2024Cl22 No Number: C3D 2024Cl22 N	Name: Easolut ste ZIP: 3122 Narriana ste ZIP: 3122 Narriana ste ZIP: 303-51/7.8431 Name: 5303-51/7.8431 Number: 7303-51/7.8431 Number: 7303-51/7.8431 Same: 64/4 Location: 64/4 Location: 64/4 Same: 63/1 Same: 7 Same: 7 Second Intact: 7 Custody Seals: 7 Sample Identification Matrix Date 5	Ny Name: Ensolution Starting and Marking and Marking and Marking and Marking Solution and Solution and Marking So	Ny Name: Ensolution Starting Solution Starting Solution Starting Solution Name: Starting Solution Name: Starting Solution Name: Starting Solution Name: Starting Solution Solution F Received Intact: Cost No E RECEIPT Sample Identification Starting Solution F Received Intact: Cost No Contected Ten Control Solution Soluti	2 Narian Park S-5/7-8437 3-5/7-8437 P2024062 P2024062 P2024062 P2024062 P2024062 P2024062 P2024062 P2024062 P2024667 P202467 P2024667 P202467 P20257 P202467 P2025	Ny Name: Ens of units iste ZIP: 3122 Nante ste ZIP: 303-57/7.54731 Name: 7.052-57/7.54731 Name: 0520-57/7.54731 Number: 0520-20062 Number: 0520-20062 Number: 0520-20062 Number: 0520-20062 Number: 0520-20062 Number: 0520-20062 Iocation: 644 Iocation: 7-27 Iocation: 5	Ompany Name: Ens of understand and the set of the set	Name: Ens of unitary site ZIP: 3122 Martian hame: 303-577.58431 Number: 303-577.58431 Number: 650.2024062 Number: 650.2024062 Number: 650.2024062 Is Name: 650.202406 Is Name: 7227 Is Name: 7227

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Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 2667 List Number: 1 Creator: Stutzman, Amanda

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

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Job Number: 890-2667-1 SDG Number: Eddy County

List Source: Eurofins Midland

List Creation: 07/29/22 10:24 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2667 List Number: 2 Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	141951
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Report Approved.	9/13/2022

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Action 141951