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	NAPP2301152626
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Garrett Green	Contact Telephone 575-200-0729
Contact email garrett.green@exxonmobil.com	Incident # *(assigned by OCD)*
Contact mailing address 3104 E. Greene Street, Carlsbad, New Mexico, 88220	

Location of Release Source

Latitude 32.41260 Longitude -104.12059

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Indian Draw Deep 7 Com 3	Site Type Well Pad
Date Release Discovered 12/28/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
A	07	22S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* Clark, Sammy D & Elizabeth A)

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) 46.00	Volume Recovered (bbls) 35.00
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Oil tank developed a hole due to corrosion, which caused 46bbl oil to be released into lined containment. Containment had a hole which allowed 11bbl of oil to impact pad surface. Vac truck was dispatched and recovered 35bbl from containment. A third-party contractor has been retained for remediation purposes.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2301152626
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? A release equal to or greater than 25 barrels.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, by Garrett Green to ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD;Harimon, Jocelyn, EMNRD on 12/29/2022 via email.

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 not been undertaken, explain why:
NA

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: Garrett Green
Title: SSHE Coordinator
Signature: 
Date: 01/11/2023
email: garrett.green@exxonmobil.com
Telephone: 575-200-0729

OCD Only

Received by: Jocelyn Harimon
Date: 01/12/2023

Location:	Indian Draw Deep 7 Com 03	
Spill Date:	12/28/2022	
Area 1		
Approximate Area =	196.51	cu.ft.
VOLUME OF LEAK		
Total Crude Oil =	35.00	bbls
Total Produced Water =	0.00	bbls
Area 2		
Approximate Area =	7603.00	sq. ft.
Average Saturation (or depth) of spill =	3.25	inches

Average Porosity Factor =	0.03	

VOLUME OF LEAK		
Total Crude Oil =	11.00	bbls
Total Produced Water =	0.00	bbls

TOTAL VOLUME OF LEAK		
Total Crude Oil =	**46.00**	**bbls**
Total Produced Water =	**0.00**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**35.00**	**bbls**
Total Produced Water =	**0.00**	**bbls**

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: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 175252
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	1/12/2023

Incident ID	NAPP2301152626
District RP	
Facility ID	
Application ID	

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?	< 50 (ft 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
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ 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.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2301152626
District RP	
Facility ID	
Application ID	

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: Garrett Green

Title: SSHE Coordinator

Signature:

Date: 6/22/2023

email: garrett.green@exxonmobil.com

Telephone: 575-200-0729

OCD Only

Received by: Shelly Wells

Date: 6/23/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2301152626
District RP	
Facility ID	
Application ID	

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: Garrett Green Title: SSHE Coordinator

Signature: Date: 6/22/2023

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: Shelly Wells Date: 6/23/2023

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: _____

Printed Name: _____ Title: _____

ENSOLUM

June 22, 2023

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Closure Request
Indian Draw Deep 7 Com 3
Incident Number NAPP2301152626
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc (XTO), has prepared this *Closure Request* to document assessment and soil sampling activities at the Indian Draw Deep 7 Com 3 (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil at the Site. Based on Site assessment, delineation activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation activities that have occurred and requesting no further action for Incident Number NAPP2301152626.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 7, Township 22 South, Range 28 East, in Eddy County, New Mexico (32.41260°, -104.12059°) and is associated with oil and gas exploration and production operations on private land owned by Mr. and Mrs. Sammy D and Elizabeth A Clark.

On December 28, 2022, a hole developed in a crude oil tank due to corrosion, resulting in the release of approximately 46 barrels (bbls) of crude oil into a lined containment. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 35 bbls of crude oil were recovered. XTO reported the release immediately to the New Mexico Oil Conservation (NMOCD) via email on December 29, 2022, and submitted a Release Notification Form C-141 (Form C-141) on January 11, 2023. The release was assigned Incident Number NAPP2301152626.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was assessed for the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater is New Mexico Office of the State Engineer (OSE) well C-04702, located approximately 1.47 miles south of the Site. The groundwater well has a reported depth to groundwater of 46 feet bgs and a total depth of 55 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a large ditch (abandoned canal) that was excavated and once served to direct surface runoff for irrigation purposes and is now considered as a seasonal dry wash, located approximately 1,174 feet northeast of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or 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 (medium potential karst designation area).

Based on estimated depth to groundwater to be less than 50 feet bgs, the following NMOCD Table I 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): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

On March 15, 2023, Site assessment activities were conducted at the Site to evaluate the release based on information provided on the C-141 and visual observations. The *Cause of Release* section of the Form C-141 indicated the "containment had a hole"; however, a liner integrity inspection was conducted by Ensolum personnel and the liner was determined to be in good working condition. Six delineation soil samples (SS01 through SS06) were collected around the containment area at a depth of 0.5 feet bgs to confirm the release did not extend outside the walls of the containment area. The delineation 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 of the Site assessment activities and liner inspection were completed and a photographic log is included in Appendix B.

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 under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they were collected may not have equilibrated to 6 degrees Celsius required for shipment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

On March 24, 2023, Ensolum personnel returned to the Site to complete additional delineation activities. Six boreholes (BH01 through BH06) were advanced via hand auger to assess the release area. Boreholes BH01 through BH06 were advanced in the vicinity of soil sample locations SS01 through SS06, respectively. Discrete delineation soil samples were collected in each borehole at the terminal depth of 2 feet bgs. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs and are included in Appendix C. All delineation soil samples were field screened, handled, and analyzed as described above. The delineation soil sample locations are depicted on Figure 2.

Laboratory analytical results indicated all COC concentrations for all delineation soil samples collected were in compliance with the Site Closure Criteria and the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil from the December 28, 2022 release of crude oil. Delineation activities were completed, and laboratory analytical results indicated all COC concentrations for all delineation soil samples collected were in compliance with the Closure Criteria and the strictest Table I Closure Criteria. Although the *Cause of Release* section of the Form C-141 indicates the "containment had a hole", a liner integrity inspection was conducted by Ensolum personnel and the liner was determined to be in good working condition. Therefore, due to delineation soil sample results, a liner inspection indicating the liner is in good condition, the absence of a newly installed liner patch, and the absence of surficial staining surrounding the containment area, XTO believes there was an error in calculating the volumes of the released fluids and/or recovered fluids immediately following the release.

Based on initial response efforts and soil sample laboratory analytical results compliant with the Closure Criteria, no further remediation was required. XTO believes these remedial actions are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number NAPP2301152626.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC

Meredith Roberts
Field Geologist

Daniel R. Moir PG
Senior Managing Geologist

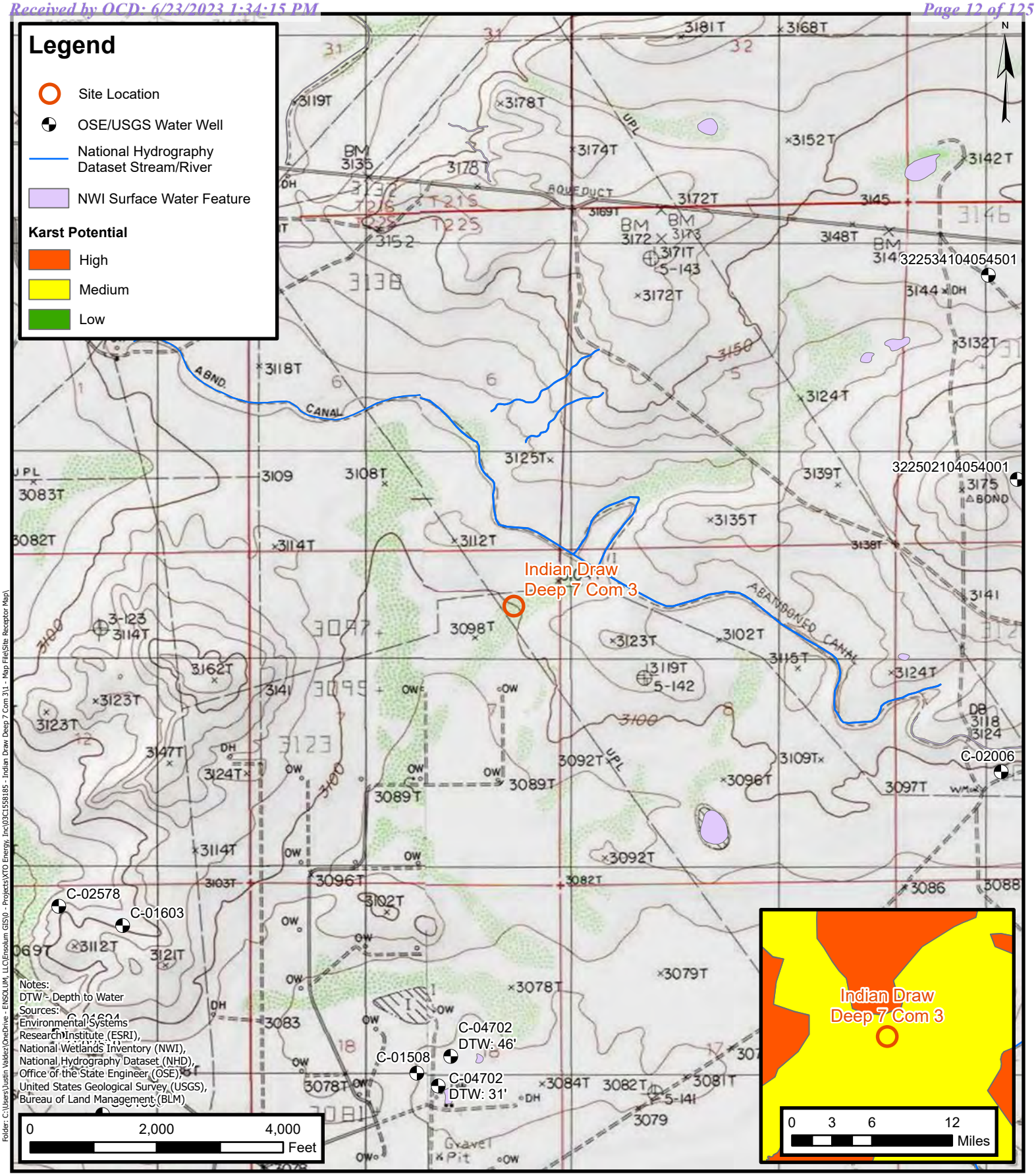
cc: Garrett Green, XTO
Shelby Pennington, XTO
Mr. and Mrs. Sammy D and Elizabeth A Clark

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications

ENSOLUM

FIGURES



Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558185 - Indian Draw Deep 7 Com 3\1 - Map File\Site Receptor Map\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc
Indian Draw Deep 7 Com 3
Incident Number: NAPP2301152626
Unit A, Sec 7, T22S, R28E
Eddy County, New Mexico

FIGURE 1

Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558185 - Indian Draw Deep 7 Com 3\1 - Map File\Delineation Soil Sample Locations Map\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Sample Locations

XTO Energy, Inc
Indian Draw Deep 7 Com 3
Incident Number: NAPP2301152626
Unit A, Sec 7, T22S, R28E
Eddy County, New Mexico

FIGURE 2

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Indian Draw Deep 7 Com 3
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample 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)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	03/15/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	19.2
BH01	03/24/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	53.8
SS02	03/15/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	92.8
BH02	03/24/2023	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	59.6
SS03	03/15/2023	0.5	<0.00200	<0.00401	<50.0	55.5	<50.0	55.5	55.5	17.8
BH03	03/24/2023	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	53.0
SS04	03/15/2023	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	15.3
BH04	03/24/2023	2	<0.00199	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	57.1
SS05	03/15/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	8.72
BH05	03/24/2023	2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	40.1
SS06	03/15/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	254
BH06	03/24/2023	2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	119

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
NMAC: New Mexico Administrative Code

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APPENDIX A

Referenced Well Records

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): C-04702 POD2	WELL TAG ID NO.	OSE FILE NO(S).: C-04702
WELL OWNER NAME(S): Chevron North America Exploration		PHONE (OPTIONAL): 931-436-0316
WELL OWNER MAILING ADDRESS: 1004 N Big Spring Street Suite 121		CITY: Midland STATE: TX ZIP: 79701

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	23	24.45	N
	LONGITUDE	104	07	27.36	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: Old Indian Draw Unit #001

2. DRILLING & CASING INFORMATION

LICENSE NO.: WD-1456	NAME OF LICENSED DRILLER: John W. White		NAME OF WELL DRILLING COMPANY: White Drilling Company, Inc.
DRILLING STARTED: 02/13/2023	DRILLING ENDED: 2/16/2023	DEPTH OF COMPLETED WELL (FT): 55.0	BORE HOLE DEPTH (FT):
DEPTH WATER FIRST ENCOUNTERED (FT): 46.4			

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 46.4

DATE STATIC MEASURED: 02/16/2023

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0.0	35.0	6.0	Sch. 40 Riser	Threads	2.0	1/4"	
30.0	55.0	6.0	Sch. 40 Screen	Threads	2.0	1/4"	.010

RECEIVED OCD MAR 6 2023 PM 1:20

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT
31.0	33.0	6.0	Bentonite Chips	0.5 Bag	Hand Mix
33.0	55.0	6.0	20/40 Sand	8 Bags	Hand Mix

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-04702	POD NO. 2	TRN NO. 741865	
LOCATION 22S.28E.18.2.1.4		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	0.5	0.5	Brown clayey sand	Y ✓ N	
0.5	1.0	0.5	Brown limestone	Y ✓ N	
1.0	19.0	18.0	Caliche	Y ✓ N	
19.0	20.5	1.5	Gray brown limestone	Y ✓ N	
20.5	24.0	3.5	Caliche	Y ✓ N	
24.0	31.0	7.0	Gravel/limestone	Y ✓ N	
31.0	35.0	4.0	Brown sand w/gravel	Y ✓ N	
35.0	44.0	9.0	Red brown sandy shale	Y ✓ N	
44.0	50.0	6.0	Brown sand/sandstone	✓ Y N	
50.0	55.0	5.0	Red brown silty shale	Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

John W. White — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

2/28/2023 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-04702	POD NO. 2	TRN NO. 741865	
LOCATION 22S.28E.18.2.1.4		WELL TAG ID NO	PAGE 2 OF 2

ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc
Indian Draw Deep 7 Com 3
Incident Number nAPP2301152626

Photograph 1 Date: 03/15/2023
Description: Site assessment activities, site condition.
View: Southwest

Photograph 2 Date: 03/15/2023
Description: Site assessment activities, site condition.
View: South

Photograph 3 Date: 03/24/2023
Description: Site assessment, liner condition.
View: Southwest

Photograph 4 Date: 03/24/2023
Description: Site assessment, liner condition.
View: Northeast

ENSOLUM

Photographic Log
XTO Energy, Inc
Indian Draw Deep 7 Com 3
Incident Number nAPP2301152626

Photograph 5 Date: 03/24/2023
Description: Delineation activities, site condition.
View: North

Photograph 6 Date: 03/24/2023
Description: Delineation activities, BH04.
View: East

Photograph 7 Date: 03/24/2023
Description: Delineation activities, BH03.
View: South

Photograph 8 Date: 03/24/2023
Description: Delineation activities, BH06.
View: Southwest

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Sample Name: BH01	Date: 03/24/2023
Site Name: Indian Draw Deep 7 Com 3	
Incident Number: NAPP2301152626	
Job Number: 03C1558185	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: MR	Method: Hand Auger
Coordinates: 32.412045, -104.120678	Hole Diameter: 4" / Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0 - 0.75' CALICHE, red/light brown, sub-rounded, poorly sorted, no stain, no odor, dry.
D	<173.6	0.7	N	SS01	0.5		SP	0.75 - 2' SAND, medium brown, silty-sand mix, poorly sorted, sub-rounded grains, no stain, no odor, moist.
M	<173.6	0.9	N			1		
M	<173.6	0.7	N	BH01	2	2		
						TD		Total Depth @ 2' bgs.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Sample Name: BH02	Date: 03/24/2023
Site Name: Indian Draw Deep 7 Com 3	
Incident Number: NAPP2301152626	
Job Number: 03C1558185	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: MR	Method: Hand Auger	
Coordinates: 32.411994, -104.120713	Hole Diameter: 4"	Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0 - 0.75' CALICHE, red/light brown, sub-rounded, poorly sorted, no stain, no odor, dry.
D	<173.6	0.7	N	SS02	0.5		SP	0.75 - 2' SAND, medium brown, silty-sand mix, poorly sorted, sub-rounded grains, no stain, no odor, moist.
M	<173.6	0.5	N			1		
M	<173.6	0.6	N	BH02	2	2		
						TD		Total Depth @ 2' bgs.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Sample Name: BH03	Date: 03/24/2023
Site Name: Indian Draw Deep 7 Com 3	
Incident Number: NAPP2301152626	
Job Number: 03C1558185	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: MR	Method: Hand Auger
Coordinates: 32.412061, -104.120827	Hole Diameter: 4"	Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0 - 0.75' CALICHE, red/light brown, sub-rounded, poorly sorted, no stain, no odor, dry.
D	<173.6	0.3	N	SS03	0.5		SP	0.75 - 2' SAND, medium brown, silty-sand mix, poorly sorted, sub-rounded grains, no stain, no odor, moist.
M	<173.6	0.8	N			1		
M	<173.6	0.4	N	BH03	2	2		
						TD		Total Depth @ 2' bgs.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Sample Name: BH04	Date: 03/24/2023
Site Name: Indian Draw Deep 7 Com 3	
Incident Number: NAPP2301152626	
Job Number: 03C1558185	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: MR	Method: Hand Auger
Coordinates: 32.412006, -104.120867	Hole Diameter: 4" / Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0 - 0.75' CALICHE, red/light brown, sub-rounded, poorly sorted, no stain, no odor, dry.
D	<173.6	0.3	N	SS04	0.5		SP	0.75 - 2' SAND, medium brown, silty-sand mix, poorly sorted, sub-rounded grains, no stain, no odor, moist.
M	<173.6	0.6	N			1		
M	<173.6	0.5	N	BH04	2	2		
						TD		Total Depth @ 2' bgs.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Sample Name: BH05	Date: 03/24/2023
Site Name: Indian Draw Deep 7 Com 3	
Incident Number: NAPP2301152626	
Job Number: 03C1558185	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: MR	Method: Hand Auger
Coordinates: 32.411975, -104.120806	Hole Diameter: 4" / Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0 - 0.75' CALICHE, red/light brown, sub-rounded, poorly sorted, no stain, no odor, dry.
D	<173.6	0.0	N	SS05	0.5		SP	0.75 - 2' SAND, medium brown, silty-sand mix, poorly sorted, sub-rounded grains, no stain, no odor, moist.
M	<173.6	0.6	N			1		
M	<173.6	0.7	N	BH05	2	2		
						TD		Total Depth @ 2' bgs.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Sample Name: BH06	Date: 03/24/2023
Site Name: Indian Draw Deep 7 Com 3	
Incident Number: NAPP2301152626	
Job Number: 03C1558185	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: MR	Method: Hand Auger	
Coordinates: 32.412076, -104.120735	Hole Diameter: 4"	Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0 - 0.75' CALICHE, red/light brown, sub-rounded, poorly sorted, no stain, no odor, dry.
D	<173.6	0.2	N	SS06	0.5		SP	0.75 - 2' SAND, medium brown, silty-sand mix, poorly sorted, sub-rounded grains, no stain, no odor, moist.
M	<173.6	1.0	N			1		
M	<173.6	0.7	N	BH06	2	2		
						TD		Total Depth @ 2' bgs.

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 3/29/2023 2:58:14 PM

JOB DESCRIPTION

Indian Draw Deep 7 Com 3
SDG NUMBER 03C1558185

JOB NUMBER

890-4323-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

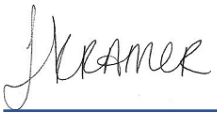
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



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3/29/2023 2:58:14 PM

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

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Laboratory Job ID: 890-4323-1
SDG: 03C1558185

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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
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: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

Job ID: 890-4323-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4323-1

Receipt
The samples were received on 3/15/2023 2:17 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

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4323-1), SS02 (890-4323-2), SS03 (890-4323-3), SS04 (890-4323-4) and SS05 (890-4323-5).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-4323-1), SS02 (890-4323-2), SS03 (890-4323-3), SS04 (890-4323-4), SS05 (890-4323-5), (890-4353-A-34-C), (890-4353-A-34-A MS) and (890-4353-A-34-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49143 and analytical batch 880-49155 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-49143/2-A) and (LCSD 880-49143/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-49143 and analytical batch 880-49155 was outside control limits. Sample non-homogeneity 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.

Client Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

Client Sample ID: SS01

Lab Sample ID: 890-4323-1
Matrix: Solid
Date Collected: 03/15/23 11:00
Date Received: 03/15/23 14:17
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/24/23 14:10	03/28/23 19:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 14:10	03/28/23 19:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 14:10	03/28/23 19:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 14:10	03/28/23 19:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 14:10	03/28/23 19:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 14:10	03/28/23 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*49*	*S1-*	*70 - 130*	*03/24/23 14:10*	*03/28/23 19:20*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*03/24/23 14:10*	*03/28/23 19:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/29/23 12:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 12:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 12:56	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*03/21/23 13:58*	*03/22/23 12:56*	*1*
o-Terphenyl	*91*		*70 - 130*	*03/21/23 13:58*	*03/22/23 12:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.2**		4.99		mg/Kg			03/26/23 10:41	1

Client Sample ID: SS02

Lab Sample ID: 890-4323-2
Matrix: Solid
Date Collected: 03/15/23 11:25
Date Received: 03/15/23 14:17
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/24/23 14:10	03/28/23 19:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/24/23 14:10	03/28/23 19:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/24/23 14:10	03/28/23 19:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/24/23 14:10	03/28/23 19:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/24/23 14:10	03/28/23 19:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/24/23 14:10	03/28/23 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*03/24/23 14:10*	*03/28/23 19:46*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

Client Sample ID: SS02

Lab Sample ID: 890-4323-2
Matrix: Solid
Date Collected: 03/15/23 11:25
Date Received: 03/15/23 14:17
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/24/23 14:10*	*03/28/23 19:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/29/23 12:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/21/23 13:58	03/22/23 13:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/21/23 13:58	03/22/23 13:17	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/21/23 13:58	03/22/23 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*104*		*70 - 130*	*03/21/23 13:58*	*03/22/23 13:17*	*1*
o-Terphenyl	*108*		*70 - 130*	*03/21/23 13:58*	*03/22/23 13:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.8**		5.03	mg/Kg			03/26/23 10:46	1

Client Sample ID: SS03

Lab Sample ID: 890-4323-3
Matrix: Solid
Date Collected: 03/15/23 11:10
Date Received: 03/15/23 14:17
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/28/23 20:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/28/23 20:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/28/23 20:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/24/23 14:10	03/28/23 20:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/28/23 20:13	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/24/23 14:10	03/28/23 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*160*	*S1+*	*70 - 130*	*03/24/23 14:10*	*03/28/23 20:13*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/24/23 14:10*	*03/28/23 20:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/29/23 12:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.5**		50.0	mg/Kg			03/22/23 16:11	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

Client Sample ID: SS03

Lab Sample ID: 890-4323-3
Matrix: Solid
Date Collected: 03/15/23 11:10
Date Received: 03/15/23 14:17
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 13:40	1
Diesel Range Organics (Over C10-C28)	**55.5**		50.0		mg/Kg		03/21/23 13:58	03/22/23 13:40	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*03/21/23 13:58*	*03/22/23 13:40*	*1*
o-Terphenyl	*113*		*70 - 130*	*03/21/23 13:58*	*03/22/23 13:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.8**		5.02		mg/Kg			03/26/23 10:51	1

Client Sample ID: SS04

Lab Sample ID: 890-4323-4
Matrix: Solid
Date Collected: 03/15/23 11:15
Date Received: 03/15/23 14:17
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/24/23 14:10	03/28/23 21:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/24/23 14:10	03/28/23 21:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/24/23 14:10	03/28/23 21:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/24/23 14:10	03/28/23 21:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/24/23 14:10	03/28/23 21:57	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/24/23 14:10	03/28/23 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*03/24/23 14:10*	*03/28/23 21:57*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*03/24/23 14:10*	*03/28/23 21:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/29/23 12:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 14:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 14:02	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*03/21/23 13:58*	*03/22/23 14:02*	*1*
o-Terphenyl	*114*		*70 - 130*	*03/21/23 13:58*	*03/22/23 14:02*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

Client Sample ID: SS04

Lab Sample ID: 890-4323-4
Matrix: Solid
Date Collected: 03/15/23 11:15
Date Received: 03/15/23 14:17
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.3		5.00		mg/Kg			03/26/23 11:05	1

Client Sample ID: SS05

Lab Sample ID: 890-4323-5
Matrix: Solid
Date Collected: 03/15/23 11:20
Date Received: 03/15/23 14:17
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/23 14:10	03/28/23 22:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 14:10	03/28/23 22:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 14:10	03/28/23 22:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/24/23 14:10	03/28/23 22:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 14:10	03/28/23 22:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/24/23 14:10	03/28/23 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*	*03/24/23 14:10*	*03/28/23 22:23*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/24/23 14:10*	*03/28/23 22:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/29/23 12:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 14:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 14:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*03/21/23 13:58*	*03/22/23 14:24*	*1*
o-Terphenyl	*111*		*70 - 130*	*03/21/23 13:58*	*03/22/23 14:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.72		4.98		mg/Kg			03/26/23 11:10	1

Surrogate Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-4323-1	SS01	49 S1-	87										
890-4323-2	SS02	144 S1+	85										
890-4323-3	SS03	160 S1+	92										
890-4323-4	SS04	147 S1+	87										
890-4323-5	SS05	154 S1+	90										
890-4353-A-34-A MS	Matrix Spike	143 S1+	94										
890-4353-A-34-B MSD	Matrix Spike Duplicate	138 S1+	99										
LCS 880-49447/1-A	Lab Control Sample	114	102										
LCSD 880-49447/2-A	Lab Control Sample Dup	114	107										
MB 880-49447/5-A	Method Blank	92	81										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-26040-A-11-B MS	Matrix Spike	100	99										
880-26040-A-11-C MSD	Matrix Spike Duplicate	122	121										
890-4323-1	SS01	82	91										
890-4323-2	SS02	104	108										
890-4323-3	SS03	106	113										
890-4323-4	SS04	108	114										
890-4323-5	SS05	105	111										
LCS 880-49143/2-A	Lab Control Sample	115	135 S1+										
LCSD 880-49143/3-A	Lab Control Sample Dup	111	132 S1+										
MB 880-49143/1-A	Method Blank	117	138 S1+										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49447/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49735 — **Prep Batch: 49447**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/23 14:10	03/28/23 15:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 14:10	03/28/23 15:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 14:10	03/28/23 15:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/24/23 14:10	03/28/23 15:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 14:10	03/28/23 15:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/24/23 14:10	03/28/23 15:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*03/24/23 14:10*	*03/28/23 15:20*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*03/24/23 14:10*	*03/28/23 15:20*	*1*

Lab Sample ID: LCS 880-49447/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49735 — **Prep Batch: 49447**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1130		mg/Kg		113	70 - 130		
Toluene			0.100	0.09973		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.1082		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2222		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1057		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-49447/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49735 — **Prep Batch: 49447**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1239		mg/Kg		124	70 - 130	9	35
Toluene			0.100	0.1039		mg/Kg		104	70 - 130	4	35
Ethylbenzene			0.100	0.1134		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2319		mg/Kg		116	70 - 130	4	35
o-Xylene			0.100	0.1103		mg/Kg		110	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-4353-A-34-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49735 — **Prep Batch: 49447**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1071		mg/Kg		107	70 - 130		
Toluene	<0.00200	U	0.100	0.1079		mg/Kg		107	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

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

Lab Sample ID: 890-4353-A-34-A MS
Matrix: Solid
Analysis Batch: 49735

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49447

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1227		mg/Kg		122	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.2515		mg/Kg		125	70 - 130
o-Xylene	<0.00200	U	0.100	0.1199		mg/Kg		119	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-4353-A-34-B MSD
Matrix: Solid
Analysis Batch: 49735

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 49447

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1282		mg/Kg		129	70 - 130	18	35
Toluene	<0.00200	U	0.0996	0.1114		mg/Kg		112	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.1226		mg/Kg		123	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2519		mg/Kg		126	70 - 130	0	35
o-Xylene	<0.00200	U	0.0996	0.1190		mg/Kg		120	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-49143/1-A
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49143

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/21/23 13:58	03/22/23 08:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/21/23 13:58	03/22/23 08:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/21/23 13:58	03/22/23 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*03/21/23 13:58*	*03/22/23 08:00*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*03/21/23 13:58*	*03/22/23 08:00*	*1*

Lab Sample ID: LCS 880-49143/2-A
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	957.6		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	916.2		mg/Kg		92	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

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

Lab Sample ID: LCS 880-49143/2-A
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: LCSD 880-49143/3-A
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49143

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	941.5		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	888.6		mg/Kg		89	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: 880-26040-A-11-B MS
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	963.1		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	124		999	919.6		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-26040-A-11-C MSD
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 49143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	1211	F2	mg/Kg		119	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	124		998	1104		mg/Kg		98	70 - 130	18	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	121		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49271/1-A
Matrix: Solid
Analysis Batch: 49506

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/26/23 10:07	1

Lab Sample ID: LCS 880-49271/2-A
Matrix: Solid
Analysis Batch: 49506

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.5		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-49271/3-A
Matrix: Solid
Analysis Batch: 49506

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	262.4		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-4320-A-6-C MS
Matrix: Solid
Analysis Batch: 49506

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	148		251	409.7		mg/Kg		104	90 - 110		

Lab Sample ID: 890-4320-A-6-D MSD
Matrix: Solid
Analysis Batch: 49506

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	148		251	410.0		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

GC VOA

Prep Batch: 49447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4323-1	SS01	Total/NA	Solid	5035	
890-4323-2	SS02	Total/NA	Solid	5035	
890-4323-3	SS03	Total/NA	Solid	5035	
890-4323-4	SS04	Total/NA	Solid	5035	
890-4323-5	SS05	Total/NA	Solid	5035	
MB 880-49447/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49447/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49447/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4353-A-34-A MS	Matrix Spike	Total/NA	Solid	5035	
890-4353-A-34-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4323-1	SS01	Total/NA	Solid	8021B	49447
890-4323-2	SS02	Total/NA	Solid	8021B	49447
890-4323-3	SS03	Total/NA	Solid	8021B	49447
890-4323-4	SS04	Total/NA	Solid	8021B	49447
890-4323-5	SS05	Total/NA	Solid	8021B	49447
MB 880-49447/5-A	Method Blank	Total/NA	Solid	8021B	49447
LCS 880-49447/1-A	Lab Control Sample	Total/NA	Solid	8021B	49447
LCSD 880-49447/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49447
890-4353-A-34-A MS	Matrix Spike	Total/NA	Solid	8021B	49447
890-4353-A-34-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49447

Analysis Batch: 49842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4323-1	SS01	Total/NA	Solid	Total BTEX	
890-4323-2	SS02	Total/NA	Solid	Total BTEX	
890-4323-3	SS03	Total/NA	Solid	Total BTEX	
890-4323-4	SS04	Total/NA	Solid	Total BTEX	
890-4323-5	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4323-1	SS01	Total/NA	Solid	8015NM Prep	
890-4323-2	SS02	Total/NA	Solid	8015NM Prep	
890-4323-3	SS03	Total/NA	Solid	8015NM Prep	
890-4323-4	SS04	Total/NA	Solid	8015NM Prep	
890-4323-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-49143/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49143/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26040-A-11-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26040-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4323-1	SS01	Total/NA	Solid	8015B NM	49143
890-4323-2	SS02	Total/NA	Solid	8015B NM	49143

QC Association Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

GC Semi VOA (Continued)

Analysis Batch: 49155 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4323-3	SS03	Total/NA	Solid	8015B NM	49143
890-4323-4	SS04	Total/NA	Solid	8015B NM	49143
890-4323-5	SS05	Total/NA	Solid	8015B NM	49143
MB 880-49143/1-A	Method Blank	Total/NA	Solid	8015B NM	49143
LCS 880-49143/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49143
LCSD 880-49143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49143
880-26040-A-11-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49143
880-26040-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49143

Analysis Batch: 49233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4323-1	SS01	Total/NA	Solid	8015 NM	
890-4323-2	SS02	Total/NA	Solid	8015 NM	
890-4323-3	SS03	Total/NA	Solid	8015 NM	
890-4323-4	SS04	Total/NA	Solid	8015 NM	
890-4323-5	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4323-1	SS01	Soluble	Solid	DI Leach	
890-4323-2	SS02	Soluble	Solid	DI Leach	
890-4323-3	SS03	Soluble	Solid	DI Leach	
890-4323-4	SS04	Soluble	Solid	DI Leach	
890-4323-5	SS05	Soluble	Solid	DI Leach	
MB 880-49271/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49271/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49271/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4320-A-6-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4320-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4323-1	SS01	Soluble	Solid	300.0	49271
890-4323-2	SS02	Soluble	Solid	300.0	49271
890-4323-3	SS03	Soluble	Solid	300.0	49271
890-4323-4	SS04	Soluble	Solid	300.0	49271
890-4323-5	SS05	Soluble	Solid	300.0	49271
MB 880-49271/1-A	Method Blank	Soluble	Solid	300.0	49271
LCS 880-49271/2-A	Lab Control Sample	Soluble	Solid	300.0	49271
LCSD 880-49271/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49271
890-4320-A-6-C MS	Matrix Spike	Soluble	Solid	300.0	49271
890-4320-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49271

Lab Chronicle

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

Client Sample ID: SS01

Lab Sample ID: 890-4323-1
Matrix: Solid
Date Collected: 03/15/23 11:00
Date Received: 03/15/23 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49447	03/24/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49735	03/28/23 19:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49842	03/29/23 12:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 12:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49271	03/22/23 22:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49506	03/26/23 10:41	SMC	EET MID

Client Sample ID: SS02

Lab Sample ID: 890-4323-2
Matrix: Solid
Date Collected: 03/15/23 11:25
Date Received: 03/15/23 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49447	03/24/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49735	03/28/23 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49842	03/29/23 12:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 13:17	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49271	03/22/23 22:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49506	03/26/23 10:46	SMC	EET MID

Client Sample ID: SS03

Lab Sample ID: 890-4323-3
Matrix: Solid
Date Collected: 03/15/23 11:10
Date Received: 03/15/23 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49447	03/24/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49735	03/28/23 20:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49842	03/29/23 12:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 13:40	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49271	03/22/23 22:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49506	03/26/23 10:51	SMC	EET MID

Client Sample ID: SS04

Lab Sample ID: 890-4323-4
Matrix: Solid
Date Collected: 03/15/23 11:15
Date Received: 03/15/23 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	49447	03/24/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49735	03/28/23 21:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49842	03/29/23 12:47	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

Client Sample ID: SS04

Lab Sample ID: 890-4323-4

Date Collected: 03/15/23 11:15
Matrix: Solid
Date Received: 03/15/23 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 14:02	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49271	03/22/23 22:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49506	03/26/23 11:05	SMC	EET MID

Client Sample ID: SS05

Lab Sample ID: 890-4323-5

Date Collected: 03/15/23 11:20
Matrix: Solid
Date Received: 03/15/23 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49447	03/24/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49735	03/28/23 22:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49842	03/29/23 12:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 14:24	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49271	03/22/23 22:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49506	03/26/23 11:10	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

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	T104704400-22-25	06-30-23

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

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

Method Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4323-1
SDG: 03C1558185

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4323-1	SS01	Solid	03/15/23 11:00	03/15/23 14:17	0.5
890-4323-2	SS02	Solid	03/15/23 11:25	03/15/23 14:17	0.5
890-4323-3	SS03	Solid	03/15/23 11:10	03/15/23 14:17	0.5
890-4323-4	SS04	Solid	03/15/23 11:15	03/15/23 14:17	0.5
890-4323-5	SS05	Solid	03/15/23 11:20	03/15/23 14:17	0.5

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy, Inc
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989.854.0852	Email:	bbelill@ensolum.com

Work Order Comments

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

Project Name:	Indian Draw Deep 7 Com 3	Turn Around	
Project Number:	03C1558185	☑ Routine ☐ Rush	
Project Location:	32.41260, -104.12059	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TWm009
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.0

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX	Chlorides	TPH	Sample Comments
SS01	S	3/15/23	1100	0.5'	G	1		X	X	X	Incident #: NAPP2301152626
SS02			1125								
SS03			1110								Cost Center: 1138841001
SS04			1115								
SS05			1120								mroberts@ensolum.com

890-4323 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3.15.23 1417			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4323-1
SDG Number: 03C1558185

Login Number: 4323
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4323-1
SDG Number: 03C1558185

Login Number: 4323
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/17/23 11:17 AM

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 <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 3/29/2023 2:58:35 PM

JOB DESCRIPTION

Indian Draw Deep 7 Com 3
SDG NUMBER 03C1558185

JOB NUMBER

890-4324-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

Eurofins Carlsbad

Job Notes

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

Authorization

Generated
3/29/2023 2:58:35 PM

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

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Laboratory Job ID: 890-4324-1
SDG: 03C1558185

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-4324-1
Project/Site: Indian Draw Deep 7 Com 3 SDG: 03C1558185

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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
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: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

Job ID: 890-4324-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4324-1

Receipt
The sample was received on 3/15/2023 2:17 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

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SS06 (890-4324-1).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SS06 (890-4324-1), (890-4353-A-34-C), (890-4353-A-34-A MS) and (890-4353-A-34-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49143 and analytical batch 880-49155 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-49143/2-A) and (LCSD 880-49143/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-49143 and analytical batch 880-49155 was outside control limits. Sample non-homogeneity 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.

Client Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

Client Sample ID: SS06

Date Collected: 03/15/23 11:05
Date Received: 03/15/23 14:17
Sample Depth: 0.5

Lab Sample ID: 890-4324-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/24/23 14:10	03/28/23 18:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 14:10	03/28/23 18:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 14:10	03/28/23 18:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 14:10	03/28/23 18:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 14:10	03/28/23 18:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 14:10	03/28/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*150*	*S1+*	*70 - 130*	*03/24/23 14:10*	*03/28/23 18:53*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/24/23 14:10*	*03/28/23 18:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/29/23 12:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 14:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 14:46	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*03/21/23 13:58*	*03/22/23 14:46*	*1*
o-Terphenyl	*94*		*70 - 130*	*03/21/23 13:58*	*03/22/23 14:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**254**		5.02		mg/Kg			03/22/23 20:04	1

Surrogate Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4324-1	SS06	150 S1+	102
890-4353-A-34-A MS	Matrix Spike	143 S1+	94
890-4353-A-34-B MSD	Matrix Spike Duplicate	138 S1+	99
LCS 880-49447/1-A	Lab Control Sample	114	102
LCSD 880-49447/2-A	Lab Control Sample Dup	114	107
MB 880-49447/5-A	Method Blank	92	81

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-26040-A-11-B MS	Matrix Spike	100	99
880-26040-A-11-C MSD	Matrix Spike Duplicate	122	121
890-4324-1	SS06	86	94
LCS 880-49143/2-A	Lab Control Sample	115	135 S1+
LCSD 880-49143/3-A	Lab Control Sample Dup	111	132 S1+
MB 880-49143/1-A	Method Blank	117	138 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49447/5-A
Matrix: Solid
Analysis Batch: 49735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49447

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/23 14:10	03/28/23 15:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 14:10	03/28/23 15:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 14:10	03/28/23 15:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/24/23 14:10	03/28/23 15:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 14:10	03/28/23 15:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/24/23 14:10	03/28/23 15:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*03/24/23 14:10*	*03/28/23 15:20*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*03/24/23 14:10*	*03/28/23 15:20*	*1*

Lab Sample ID: LCS 880-49447/1-A
Matrix: Solid
Analysis Batch: 49735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49447

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1130		mg/Kg		113	70 - 130		
Toluene			0.100	0.09973		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.1082		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2222		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1057		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-49447/2-A
Matrix: Solid
Analysis Batch: 49735

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49447

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1239		mg/Kg		124	70 - 130	9	35
Toluene			0.100	0.1039		mg/Kg		104	70 - 130	4	35
Ethylbenzene			0.100	0.1134		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2319		mg/Kg		116	70 - 130	4	35
o-Xylene			0.100	0.1103		mg/Kg		110	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-4353-A-34-A MS
Matrix: Solid
Analysis Batch: 49735

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49447

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1071		mg/Kg		107	70 - 130		
Toluene	<0.00200	U	0.100	0.1079		mg/Kg		107	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

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

Lab Sample ID: 890-4353-A-34-A MS
Matrix: Solid
Analysis Batch: 49735

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49447

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1227		mg/Kg		122	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.2515		mg/Kg		125	70 - 130
o-Xylene	<0.00200	U	0.100	0.1199		mg/Kg		119	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-4353-A-34-B MSD
Matrix: Solid
Analysis Batch: 49735

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 49447

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1282		mg/Kg		129	70 - 130	18	35
Toluene	<0.00200	U	0.0996	0.1114		mg/Kg		112	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.1226		mg/Kg		123	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2519		mg/Kg		126	70 - 130	0	35
o-Xylene	<0.00200	U	0.0996	0.1190		mg/Kg		120	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-49143/1-A
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49143

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 08:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 08:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*03/21/23 13:58*	*03/22/23 08:00*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*03/21/23 13:58*	*03/22/23 08:00*	*1*

Lab Sample ID: LCS 880-49143/2-A
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49143

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	957.6		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)			1000	916.2		mg/Kg		92	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

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

Lab Sample ID: LCS 880-49143/2-A
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: LCSD 880-49143/3-A
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49143

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	941.5		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	888.6		mg/Kg		89	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: 880-26040-A-11-B MS
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	963.1		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	124		999	919.6		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-26040-A-11-C MSD
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 49143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	1211	F2	mg/Kg		119	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	124		998	1104		mg/Kg		98	70 - 130	18	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	121		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48964/1-A
Matrix: Solid
Analysis Batch: 49308

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/22/23 18:22	1

Lab Sample ID: LCS 880-48964/2-A
Matrix: Solid
Analysis Batch: 49308

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.8		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-48964/3-A
Matrix: Solid
Analysis Batch: 49308

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.5		mg/Kg		98	90 - 110	2	20

Lab Sample ID: 880-26152-A-5-C MS
Matrix: Solid
Analysis Batch: 49308

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	23.9		248	287.2		mg/Kg		106	90 - 110		

Lab Sample ID: 880-26152-A-5-D MSD
Matrix: Solid
Analysis Batch: 49308

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	23.9		248	281.4		mg/Kg		104	90 - 110	2	20

QC Association Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

GC VOA

Prep Batch: 49447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4324-1	SS06	Total/NA	Solid	5035	
MB 880-49447/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49447/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49447/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4353-A-34-A MS	Matrix Spike	Total/NA	Solid	5035	
890-4353-A-34-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4324-1	SS06	Total/NA	Solid	8021B	49447
MB 880-49447/5-A	Method Blank	Total/NA	Solid	8021B	49447
LCS 880-49447/1-A	Lab Control Sample	Total/NA	Solid	8021B	49447
LCSD 880-49447/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49447
890-4353-A-34-A MS	Matrix Spike	Total/NA	Solid	8021B	49447
890-4353-A-34-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49447

Analysis Batch: 49841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4324-1	SS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4324-1	SS06	Total/NA	Solid	8015NM Prep	
MB 880-49143/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49143/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26040-A-11-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26040-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4324-1	SS06	Total/NA	Solid	8015B NM	49143
MB 880-49143/1-A	Method Blank	Total/NA	Solid	8015B NM	49143
LCS 880-49143/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49143
LCSD 880-49143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49143
880-26040-A-11-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49143
880-26040-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49143

Analysis Batch: 49233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4324-1	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4324-1	SS06	Soluble	Solid	DI Leach	
MB 880-48964/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48964/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48964/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

HPLC/IC (Continued)

Leach Batch: 48964 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26152-A-5-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-26152-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4324-1	SS06	Soluble	Solid	300.0	48964
MB 880-48964/1-A	Method Blank	Soluble	Solid	300.0	48964
LCS 880-48964/2-A	Lab Control Sample	Soluble	Solid	300.0	48964
LCSD 880-48964/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48964
880-26152-A-5-C MS	Matrix Spike	Soluble	Solid	300.0	48964
880-26152-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48964

Lab Chronicle

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

Client Sample ID: SS06

Date Collected: 03/15/23 11:05
Date Received: 03/15/23 14:17

Lab Sample ID: 890-4324-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49447	03/24/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49735	03/28/23 18:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49841	03/29/23 12:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 14:46	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48964	03/22/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49308	03/22/23 20:04	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

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	T104704400-22-25	06-30-23

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

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

Method Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4324-1
SDG: 03C1558185

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4324-1	SS06	Solid	03/15/23 11:05	03/15/23 14:17	0.5

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	bbelill@ensolum.com

Work Order Comments

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

Project Name:	Indian Draw Deep 7 Com 3	Turn Around	
Project Number:	03C1558185	☑ Routine ☐ Rush	
Project Location:	32.41260, -104.12059	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR#007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.0

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	Chlorides	TPH	Sample Comments
SS06	S	3/15/23	1105	0.5'	G	1		X	X	X	Incident #: NAPP2301152626
										→ NR	Cost Center: 1138891001
											mroberts@ensolum.com

890-4324 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins 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		3.15.23 1417	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4324-1
SDG Number: 03C1558185

Login Number: 4324
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4324-1
SDG Number: 03C1558185

Login Number: 4324
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/17/23 11:17 AM

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 <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 4/8/2023 8:08:10 AM

JOB DESCRIPTION

Indian Draw Deep 7 Com 3
SDG NUMBER 03C1558185

JOB NUMBER

890-4407-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

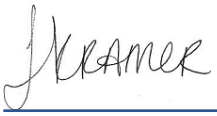
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
4/8/2023 8:08:10 AM

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

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Laboratory Job ID: 890-4407-1
SDG: 03C1558185

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-4407-1
Project/Site: Indian Draw Deep 7 Com 3 SDG: 03C1558185

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

Job ID: 890-4407-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4407-1

Receipt
The samples were received on 3/24/2023 12:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-4407-1), BH02 (890-4407-2), BH03 (890-4407-3), BH05 (890-4407-4) and BH04 (890-4407-5).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: BH02 (890-4407-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-50231 and analytical batch 880-50458 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.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-49995/5), (LCS 880-49932/2-A) and (LCSD 880-49932/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-26347-A-4-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH01 (890-4407-1) and BH05 (890-4407-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-49932 and analytical batch 880-49995 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-49932 and analytical batch 880-49995 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 duplicate (MSD) recoveries for preparation batch 880-50330 and analytical batch 880-50341 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.BH04 (890-4407-5) and (890-4407-A-5-H MSD)

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: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

Client Sample ID: BH01

Lab Sample ID: 890-4407-1
Matrix: Solid
Date Collected: 03/24/23 09:20
Date Received: 03/24/23 12:12
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/03/23 15:44	04/06/23 16:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/03/23 15:44	04/06/23 16:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/03/23 15:44	04/06/23 16:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/03/23 15:44	04/06/23 16:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/03/23 15:44	04/06/23 16:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/03/23 15:44	04/06/23 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*04/03/23 15:44*	*04/06/23 16:40*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*04/03/23 15:44*	*04/06/23 16:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/07/23 18:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/03/23 14:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		03/30/23 12:21	03/31/23 18:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		03/30/23 12:21	03/31/23 18:47	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/30/23 12:21	03/31/23 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*03/30/23 12:21*	*03/31/23 18:47*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*03/30/23 12:21*	*03/31/23 18:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.8**		5.04		mg/Kg			04/05/23 22:26	1

Client Sample ID: BH02

Lab Sample ID: 890-4407-2
Matrix: Solid
Date Collected: 03/24/23 09:30
Date Received: 03/24/23 12:12
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/03/23 15:44	04/06/23 17:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/03/23 15:44	04/06/23 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/03/23 15:44	04/06/23 17:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/03/23 15:44	04/06/23 17:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/03/23 15:44	04/06/23 17:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/03/23 15:44	04/06/23 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*04/03/23 15:44*	*04/06/23 17:00*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

Client Sample ID: BH02

Lab Sample ID: 890-4407-2
Matrix: Solid
Date Collected: 03/24/23 09:30
Date Received: 03/24/23 12:12
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*04/03/23 15:44*	*04/06/23 17:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/07/23 18:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/03/23 14:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0	mg/Kg		03/30/23 12:21	03/31/23 19:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		03/30/23 12:21	03/31/23 19:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/30/23 12:21	03/31/23 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*105*		*70 - 130*	*03/30/23 12:21*	*03/31/23 19:08*	*1*
o-Terphenyl	*127*		*70 - 130*	*03/30/23 12:21*	*03/31/23 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.6**		4.99	mg/Kg			04/05/23 22:31	1

Client Sample ID: BH03

Lab Sample ID: 890-4407-3
Matrix: Solid
Date Collected: 03/24/23 09:40
Date Received: 03/24/23 12:12
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/03/23 15:44	04/06/23 17:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/23 15:44	04/06/23 17:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/23 15:44	04/06/23 17:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/03/23 15:44	04/06/23 17:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/23 15:44	04/06/23 17:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/03/23 15:44	04/06/23 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/03/23 15:44*	*04/06/23 17:21*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/03/23 15:44*	*04/06/23 17:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/07/23 18:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/03/23 14:09	1

Client Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

Client Sample ID: BH03

Lab Sample ID: 890-4407-3
Matrix: Solid
Date Collected: 03/24/23 09:40
Date Received: 03/24/23 12:12
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		03/30/23 12:21	03/31/23 19:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		03/30/23 12:21	03/31/23 19:29	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/30/23 12:21	03/31/23 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*03/30/23 12:21*	*03/31/23 19:29*	*1*
o-Terphenyl	*120*		*70 - 130*	*03/30/23 12:21*	*03/31/23 19:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.0**		4.97		mg/Kg			04/05/23 22:36	1

Client Sample ID: BH05

Lab Sample ID: 890-4407-4
Matrix: Solid
Date Collected: 03/24/23 10:05
Date Received: 03/24/23 12:12
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/03/23 15:44	04/06/23 17:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/03/23 15:44	04/06/23 17:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/03/23 15:44	04/06/23 17:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/03/23 15:44	04/06/23 17:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/03/23 15:44	04/06/23 17:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/03/23 15:44	04/06/23 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*04/03/23 15:44*	*04/06/23 17:41*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*04/03/23 15:44*	*04/06/23 17:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/07/23 18:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/03/23 14:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		03/30/23 12:21	03/31/23 19:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		03/30/23 12:21	03/31/23 19:51	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/30/23 12:21	03/31/23 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*03/30/23 12:21*	*03/31/23 19:51*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*03/30/23 12:21*	*03/31/23 19:51*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

Client Sample ID: BH05

Lab Sample ID: 890-4407-4
Matrix: Solid
Date Collected: 03/24/23 10:05
Date Received: 03/24/23 12:12
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.1		5.00		mg/Kg			04/05/23 22:41	1

Client Sample ID: BH04

Lab Sample ID: 890-4407-5
Matrix: Solid
Date Collected: 03/24/23 10:15
Date Received: 03/24/23 12:12
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/03/23 15:44	04/06/23 18:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/03/23 15:44	04/06/23 18:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/03/23 15:44	04/06/23 18:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/03/23 15:44	04/06/23 18:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/03/23 15:44	04/06/23 18:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/03/23 15:44	04/06/23 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/03/23 15:44*	*04/06/23 18:02*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/03/23 15:44*	*04/06/23 18:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/07/23 18:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/03/23 14:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		03/30/23 12:21	03/31/23 20:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		03/30/23 12:21	03/31/23 20:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/30/23 12:21	03/31/23 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*03/30/23 12:21*	*03/31/23 20:12*	*1*
o-Terphenyl	*129*		*70 - 130*	*03/30/23 12:21*	*03/31/23 20:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.1	F1	5.01		mg/Kg			04/05/23 16:10	1

Surrogate Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-26348-A-1-C MS	Matrix Spike	117	105										
880-26348-A-1-D MSD	Matrix Spike Duplicate	88	113										
890-4407-1	BH01	91	94										
890-4407-2	BH02	90	66 S1-										
890-4407-3	BH03	97	96										
890-4407-4	BH05	86	72										
890-4407-5	BH04	96	92										
LCS 880-50231/1-A	Lab Control Sample	106	108										
LCSD 880-50231/2-A	Lab Control Sample Dup	105	110										
MB 880-50231/5-A	Method Blank	72	100										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-26347-A-4-B MS	Matrix Spike	112	122										
880-26347-A-4-C MSD	Matrix Spike Duplicate	109	119										
890-4407-1	BH01	111	136 S1+										
890-4407-2	BH02	105	127										
890-4407-3	BH03	98	120										
890-4407-4	BH05	118	141 S1+										
890-4407-5	BH04	105	129										
LCS 880-49932/2-A	Lab Control Sample	139 S1+	159 S1+										
LCSD 880-49932/3-A	Lab Control Sample Dup	167 S1+	187 S1+										
MB 880-49932/1-A	Method Blank	104	130										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50231/5-A
Matrix: Solid
Analysis Batch: 50458

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50231

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/03/23 15:44	04/06/23 10:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/03/23 15:44	04/06/23 10:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/03/23 15:44	04/06/23 10:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/03/23 15:44	04/06/23 10:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/03/23 15:44	04/06/23 10:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/03/23 15:44	04/06/23 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*04/03/23 15:44*	*04/06/23 10:49*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/03/23 15:44*	*04/06/23 10:49*	*1*

Lab Sample ID: LCS 880-50231/1-A
Matrix: Solid
Analysis Batch: 50458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50231

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1108		mg/Kg		111	70 - 130		
Toluene			0.100	0.09947		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.09904		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.2101		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1062		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-50231/2-A
Matrix: Solid
Analysis Batch: 50458

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50231

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1217		mg/Kg		122	70 - 130	9	35
Toluene			0.100	0.1090		mg/Kg		109	70 - 130	9	35
Ethylbenzene			0.100	0.1071		mg/Kg		107	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2256		mg/Kg		113	70 - 130	7	35
o-Xylene			0.100	0.1133		mg/Kg		113	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-26348-A-1-C MS
Matrix: Solid
Analysis Batch: 50458

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 50231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.101	0.07376		mg/Kg		73	70 - 130		
Toluene	<0.00200	U F1	0.101	0.06769	F1	mg/Kg		67	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

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

Lab Sample ID: 880-26348-A-1-C MS
Matrix: Solid
Analysis Batch: 50458

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 50231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.101	0.06797	F1	mg/Kg		67	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.202	0.1397	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00200	U F1 F2	0.101	0.07169		mg/Kg		71	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-26348-A-1-D MSD
Matrix: Solid
Analysis Batch: 50458

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 50231

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.07720		mg/Kg		78	70 - 130	5	35
Toluene	<0.00200	U F1	0.0990	0.05793	F1	mg/Kg		59	70 - 130	16	35
Ethylbenzene	<0.00200	U F1	0.0990	0.04863	F1	mg/Kg		49	70 - 130	33	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.198	0.09196	F1 F2	mg/Kg		46	70 - 130	41	35
o-Xylene	<0.00200	U F1 F2	0.0990	0.04671	F1 F2	mg/Kg		47	70 - 130	42	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

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

Lab Sample ID: MB 880-49932/1-A
Matrix: Solid
Analysis Batch: 49995

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49932

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/30/23 12:21	03/31/23 09:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/30/23 12:21	03/31/23 09:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/30/23 12:21	03/31/23 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*03/30/23 12:21*	*03/31/23 09:25*	*1*
o-Terphenyl	*130*		*70 - 130*	*03/30/23 12:21*	*03/31/23 09:25*	*1*

Lab Sample ID: LCS 880-49932/2-A
Matrix: Solid
Analysis Batch: 49995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49932

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1204		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1703	*+	mg/Kg		170	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

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

Lab Sample ID: LCS 880-49932/2-A
Matrix: Solid
Analysis Batch: 49995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49932

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	139	S1+	70 - 130
o-Terphenyl	159	S1+	70 - 130

Lab Sample ID: LCSD 880-49932/3-A
Matrix: Solid
Analysis Batch: 49995

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49932

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1476	*+	mg/Kg		148	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	2050	*+	mg/Kg		205	70 - 130	18	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	167	S1+	70 - 130
o-Terphenyl	187	S1+	70 - 130

Lab Sample ID: 880-26347-A-4-B MS
Matrix: Solid
Analysis Batch: 49995

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49932

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	999	982.9		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	1170		mg/Kg		117	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: 880-26347-A-4-C MSD
Matrix: Solid
Analysis Batch: 49995

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 49932

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	999	949.3		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	1153		mg/Kg		115	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	119		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50330/1-A
Matrix: Solid
Analysis Batch: 50341

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/05/23 00:12	1

Lab Sample ID: LCS 880-50330/2-A
Matrix: Solid
Analysis Batch: 50341

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.2		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-50330/3-A
Matrix: Solid
Analysis Batch: 50341

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	242.2		mg/Kg		97	90 - 110	2	20

Lab Sample ID: 890-4407-5 MS
Matrix: Solid
Analysis Batch: 50341

Client Sample ID: BH04
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	57.1	F1	251	319.6		mg/Kg		105	90 - 110		

Lab Sample ID: 890-4407-5 MSD
Matrix: Solid
Analysis Batch: 50341

Client Sample ID: BH04
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	57.1	F1	251	338.7	F1	mg/Kg		112	90 - 110	6	20

Lab Sample ID: MB 880-50171/1-A
Matrix: Solid
Analysis Batch: 50436

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/05/23 20:21	1

Lab Sample ID: LCS 880-50171/2-A
Matrix: Solid
Analysis Batch: 50436

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.0		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-50171/3-A
Matrix: Solid
Analysis Batch: 50436

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	254.2		mg/Kg		102	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-26438-A-7-E MS
Matrix: Solid
Analysis Batch: 50436

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	84.5		251	351.3		mg/Kg		107	90 - 110

Lab Sample ID: 880-26438-A-7-F MSD
Matrix: Solid
Analysis Batch: 50436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	84.5		251	350.7		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

GC VOA

Prep Batch: 50231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4407-1	BH01	Total/NA	Solid	5035	
890-4407-2	BH02	Total/NA	Solid	5035	
890-4407-3	BH03	Total/NA	Solid	5035	
890-4407-4	BH05	Total/NA	Solid	5035	
890-4407-5	BH04	Total/NA	Solid	5035	
MB 880-50231/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50231/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50231/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26348-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-26348-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 50458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4407-1	BH01	Total/NA	Solid	8021B	50231
890-4407-2	BH02	Total/NA	Solid	8021B	50231
890-4407-3	BH03	Total/NA	Solid	8021B	50231
890-4407-4	BH05	Total/NA	Solid	8021B	50231
890-4407-5	BH04	Total/NA	Solid	8021B	50231
MB 880-50231/5-A	Method Blank	Total/NA	Solid	8021B	50231
LCS 880-50231/1-A	Lab Control Sample	Total/NA	Solid	8021B	50231
LCSD 880-50231/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50231
880-26348-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	50231
880-26348-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50231

Analysis Batch: 50647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4407-1	BH01	Total/NA	Solid	Total BTEX	
890-4407-2	BH02	Total/NA	Solid	Total BTEX	
890-4407-3	BH03	Total/NA	Solid	Total BTEX	
890-4407-4	BH05	Total/NA	Solid	Total BTEX	
890-4407-5	BH04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4407-1	BH01	Total/NA	Solid	8015NM Prep	
890-4407-2	BH02	Total/NA	Solid	8015NM Prep	
890-4407-3	BH03	Total/NA	Solid	8015NM Prep	
890-4407-4	BH05	Total/NA	Solid	8015NM Prep	
890-4407-5	BH04	Total/NA	Solid	8015NM Prep	
MB 880-49932/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49932/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49932/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26347-A-4-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26347-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4407-1	BH01	Total/NA	Solid	8015B NM	49932
890-4407-2	BH02	Total/NA	Solid	8015B NM	49932

QC Association Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

GC Semi VOA (Continued)

Analysis Batch: 49995 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4407-3	BH03	Total/NA	Solid	8015B NM	49932
890-4407-4	BH05	Total/NA	Solid	8015B NM	49932
890-4407-5	BH04	Total/NA	Solid	8015B NM	49932
MB 880-49932/1-A	Method Blank	Total/NA	Solid	8015B NM	49932
LCS 880-49932/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49932
LCSD 880-49932/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49932
880-26347-A-4-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49932
880-26347-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49932

Analysis Batch: 50204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4407-1	BH01	Total/NA	Solid	8015 NM	
890-4407-2	BH02	Total/NA	Solid	8015 NM	
890-4407-3	BH03	Total/NA	Solid	8015 NM	
890-4407-4	BH05	Total/NA	Solid	8015 NM	
890-4407-5	BH04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4407-1	BH01	Soluble	Solid	DI Leach	
890-4407-2	BH02	Soluble	Solid	DI Leach	
890-4407-3	BH03	Soluble	Solid	DI Leach	
890-4407-4	BH05	Soluble	Solid	DI Leach	
MB 880-50171/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50171/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50171/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26438-A-7-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-26438-A-7-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 50330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4407-5	BH04	Soluble	Solid	DI Leach	
MB 880-50330/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50330/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50330/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4407-5 MS	BH04	Soluble	Solid	DI Leach	
890-4407-5 MSD	BH04	Soluble	Solid	DI Leach	

Analysis Batch: 50341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4407-5	BH04	Soluble	Solid	300.0	50330
MB 880-50330/1-A	Method Blank	Soluble	Solid	300.0	50330
LCS 880-50330/2-A	Lab Control Sample	Soluble	Solid	300.0	50330
LCSD 880-50330/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50330
890-4407-5 MS	BH04	Soluble	Solid	300.0	50330
890-4407-5 MSD	BH04	Soluble	Solid	300.0	50330

QC Association Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

HPLC/IC

Analysis Batch: 50436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4407-1	BH01	Soluble	Solid	300.0	50171
890-4407-2	BH02	Soluble	Solid	300.0	50171
890-4407-3	BH03	Soluble	Solid	300.0	50171
890-4407-4	BH05	Soluble	Solid	300.0	50171
MB 880-50171/1-A	Method Blank	Soluble	Solid	300.0	50171
LCS 880-50171/2-A	Lab Control Sample	Soluble	Solid	300.0	50171
LCSD 880-50171/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50171
880-26438-A-7-E MS	Matrix Spike	Soluble	Solid	300.0	50171
880-26438-A-7-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	50171

Lab Chronicle

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

Client Sample ID: BH01

Lab Sample ID: 890-4407-1
Matrix: Solid
Date Collected: 03/24/23 09:20
Date Received: 03/24/23 12:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	50231	04/03/23 15:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50458	04/06/23 16:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50647	04/07/23 18:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			50204	04/03/23 14:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49932	03/30/23 12:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49995	03/31/23 18:47	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50171	04/03/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50436	04/05/23 22:26	SMC	EET MID

Client Sample ID: BH02

Lab Sample ID: 890-4407-2
Matrix: Solid
Date Collected: 03/24/23 09:30
Date Received: 03/24/23 12:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	50231	04/03/23 15:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50458	04/06/23 17:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50647	04/07/23 18:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			50204	04/03/23 14:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49932	03/30/23 12:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49995	03/31/23 19:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50171	04/03/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50436	04/05/23 22:31	SMC	EET MID

Client Sample ID: BH03

Lab Sample ID: 890-4407-3
Matrix: Solid
Date Collected: 03/24/23 09:40
Date Received: 03/24/23 12:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	50231	04/03/23 15:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50458	04/06/23 17:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50647	04/07/23 18:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			50204	04/03/23 14:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49932	03/30/23 12:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49995	03/31/23 19:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50171	04/03/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50436	04/05/23 22:36	SMC	EET MID

Client Sample ID: BH05

Lab Sample ID: 890-4407-4
Matrix: Solid
Date Collected: 03/24/23 10:05
Date Received: 03/24/23 12:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50231	04/03/23 15:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50458	04/06/23 17:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50647	04/07/23 18:45	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

Client Sample ID: BH05

Date Collected: 03/24/23 10:05
Date Received: 03/24/23 12:12

Lab Sample ID: 890-4407-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			50204	04/03/23 14:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49932	03/30/23 12:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49995	03/31/23 19:51	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50171	04/03/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50436	04/05/23 22:41	SMC	EET MID

Client Sample ID: BH04

Date Collected: 03/24/23 10:15
Date Received: 03/24/23 12:12

Lab Sample ID: 890-4407-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	50231	04/03/23 15:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50458	04/06/23 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50647	04/07/23 18:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			50204	04/03/23 14:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49932	03/30/23 12:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49995	03/31/23 20:12	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	50330	04/04/23 16:31	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50341	04/05/23 16:10	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

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	T104704400-22-25	06-30-23

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

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

Method Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4407-1
SDG: 03C1558185

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4407-1	BH01	Solid	03/24/23 09:20	03/24/23 12:12	2'
890-4407-2	BH02	Solid	03/24/23 09:30	03/24/23 12:12	2'
890-4407-3	BH03	Solid	03/24/23 09:40	03/24/23 12:12	2'
890-4407-4	BH05	Solid	03/24/23 10:05	03/24/23 12:12	2'
890-4407-5	BH04	Solid	03/24/23 10:15	03/24/23 12:12	2'

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	bbelill@ensolum.com

Work Order Comments

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

Project Name:	Indian Draw Deep 7 Com 3	Turn Around	
Project Number:	03C1558185	☑ Routine ☐ Rush	
Project Location:	32.41269, -104.12059	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TAM-E07	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.0	
Total Containers:		Corrected Temperature:	0.8	

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

890-4407 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX	Chlorides	TPH
BH01	S	3/24/23	0920	2'	G	1	X	X	X
BH02	↓	↓	0930	↓	↓	↓	↓	↓	↓
BH03			0940						
BH05			1005						
BH04			1015						→ NR

Sample Comments

Incident #:
NAPP2301152626

Costcenter:
1138841001

mroberts@ensolum.com

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Amanda Stuff	3/24/23 1232			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4407-1
SDG Number: 03C1558185

Login Number: 4407
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4407-1
SDG Number: 03C1558185

Login Number: 4407
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 03/28/23 01:37 PM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 4/8/2023 8:08:10 AM

JOB DESCRIPTION

Indian Draw Deep 7 Com 3
SDG NUMBER 03C1558185

JOB NUMBER

890-4408-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

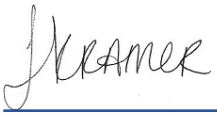
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



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4/8/2023 8:08:10 AM

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

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Laboratory Job ID: 890-4408-1
SDG: 03C1558185

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
S1-	Surrogate recovery exceeds control limits, low 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
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: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

Job ID: 890-4408-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4408-1

Receipt
The sample was received on 3/24/2023 12:12 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: BH06 (890-4408-1).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-50231 and analytical batch 880-50458 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.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-49973/2-A) and (LCSD 880-49973/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-49973 and analytical batch 880-49993 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
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: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

Client Sample ID: BH06

Date Collected: 03/24/23 10:25
Date Received: 03/24/23 12:12
Sample Depth: 2'

Lab Sample ID: 890-4408-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/03/23 15:44	04/06/23 16:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/03/23 15:44	04/06/23 16:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/03/23 15:44	04/06/23 16:19	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/03/23 15:44	04/06/23 16:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/03/23 15:44	04/06/23 16:19	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/03/23 15:44	04/06/23 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*04/03/23 15:44*	*04/06/23 16:19*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/03/23 15:44*	*04/06/23 16:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/07/23 18:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/31/23 17:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		03/30/23 13:52	03/31/23 16:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		03/30/23 13:52	03/31/23 16:01	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/30/23 13:52	03/31/23 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*03/30/23 13:52*	*03/31/23 16:01*	*1*
o-Terphenyl	*72*		*70 - 130*	*03/30/23 13:52*	*03/31/23 16:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		5.04		mg/Kg			04/04/23 16:09	1

Surrogate Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-26348-A-1-C MS	Matrix Spike	117	105										
880-26348-A-1-D MSD	Matrix Spike Duplicate	88	113										
890-4408-1	BH06	95	99										
LCS 880-50231/1-A	Lab Control Sample	106	108										
LCSD 880-50231/2-A	Lab Control Sample Dup	105	110										
MB 880-50231/5-A	Method Blank	72	100										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-26532-A-13-F MS	Matrix Spike	113	79										
880-26532-A-13-G MSD	Matrix Spike Duplicate	114	77										
890-4408-1	BH06	93	72										
LCS 880-49973/2-A	Lab Control Sample	81	65 S1-										
LCSD 880-49973/3-A	Lab Control Sample Dup	76	60 S1-										
MB 880-49973/1-A	Method Blank	110	88										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50231/5-A
Matrix: Solid
Analysis Batch: 50458

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50231

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/03/23 15:44	04/06/23 10:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/03/23 15:44	04/06/23 10:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/03/23 15:44	04/06/23 10:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/03/23 15:44	04/06/23 10:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/03/23 15:44	04/06/23 10:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/03/23 15:44	04/06/23 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*04/03/23 15:44*	*04/06/23 10:49*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/03/23 15:44*	*04/06/23 10:49*	*1*

Lab Sample ID: LCS 880-50231/1-A
Matrix: Solid
Analysis Batch: 50458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50231

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1108		mg/Kg		111	70 - 130		
Toluene			0.100	0.09947		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.09904		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.2101		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1062		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-50231/2-A
Matrix: Solid
Analysis Batch: 50458

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50231

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1217		mg/Kg		122	70 - 130	9	35
Toluene			0.100	0.1090		mg/Kg		109	70 - 130	9	35
Ethylbenzene			0.100	0.1071		mg/Kg		107	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2256		mg/Kg		113	70 - 130	7	35
o-Xylene			0.100	0.1133		mg/Kg		113	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-26348-A-1-C MS
Matrix: Solid
Analysis Batch: 50458

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 50231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.101	0.07376		mg/Kg		73	70 - 130		
Toluene	<0.00200	U F1	0.101	0.06769	F1	mg/Kg		67	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

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

Lab Sample ID: 880-26348-A-1-C MS
Matrix: Solid
Analysis Batch: 50458

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 50231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.101	0.06797	F1	mg/Kg		67	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.202	0.1397	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00200	U F1 F2	0.101	0.07169		mg/Kg		71	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-26348-A-1-D MSD
Matrix: Solid
Analysis Batch: 50458

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 50231

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.07720		mg/Kg		78	70 - 130	5	35
Toluene	<0.00200	U F1	0.0990	0.05793	F1	mg/Kg		59	70 - 130	16	35
Ethylbenzene	<0.00200	U F1	0.0990	0.04863	F1	mg/Kg		49	70 - 130	33	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.198	0.09196	F1 F2	mg/Kg		46	70 - 130	41	35
o-Xylene	<0.00200	U F1 F2	0.0990	0.04671	F1 F2	mg/Kg		47	70 - 130	42	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

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

Lab Sample ID: MB 880-49973/1-A
Matrix: Solid
Analysis Batch: 49993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49973

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/30/23 13:52	03/31/23 09:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/30/23 13:52	03/31/23 09:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/30/23 13:52	03/31/23 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*03/30/23 13:52*	*03/31/23 09:25*	*1*
o-Terphenyl	*88*		*70 - 130*	*03/30/23 13:52*	*03/31/23 09:25*	*1*

Lab Sample ID: LCS 880-49973/2-A
Matrix: Solid
Analysis Batch: 49993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49973

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	397.2	*-	mg/Kg		40	70 - 130
Diesel Range Organics (Over C10-C28)			1000	538.8	*-	mg/Kg		54	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

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

Lab Sample ID: LCS 880-49973/2-A
Matrix: Solid
Analysis Batch: 49993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49973

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	65	S1-	70 - 130

Lab Sample ID: LCSD 880-49973/3-A
Matrix: Solid
Analysis Batch: 49993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49973

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	347.7	*-	mg/Kg		35	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	490.0	*-	mg/Kg		49	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	60	S1-	70 - 130

Lab Sample ID: 880-26532-A-13-F MS
Matrix: Solid
Analysis Batch: 49993

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49973

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	998	1050		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *-	998	856.6		mg/Kg		86	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 880-26532-A-13-G MSD
Matrix: Solid
Analysis Batch: 49993

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 49973

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	999	1071		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U *-	999	853.7		mg/Kg		85	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	77		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50159/1-A
Matrix: Solid
Analysis Batch: 50391

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/04/23 13:57	1

Lab Sample ID: LCS 880-50159/2-A
Matrix: Solid
Analysis Batch: 50391

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	239.1		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-50159/3-A
Matrix: Solid
Analysis Batch: 50391

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	238.0		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-4439-A-11-B MS
Matrix: Solid
Analysis Batch: 50391

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	67.5		250	294.5		mg/Kg		91	90 - 110		

Lab Sample ID: 890-4439-A-11-C MSD
Matrix: Solid
Analysis Batch: 50391

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	67.5		250	295.2		mg/Kg		91	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

GC VOA

Prep Batch: 50231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4408-1	BH06	Total/NA	Solid	5035	
MB 880-50231/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50231/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50231/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26348-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-26348-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 50458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4408-1	BH06	Total/NA	Solid	8021B	50231
MB 880-50231/5-A	Method Blank	Total/NA	Solid	8021B	50231
LCS 880-50231/1-A	Lab Control Sample	Total/NA	Solid	8021B	50231
LCSD 880-50231/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50231
880-26348-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	50231
880-26348-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50231

Analysis Batch: 50646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4408-1	BH06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4408-1	BH06	Total/NA	Solid	8015NM Prep	
MB 880-49973/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49973/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49973/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26532-A-13-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26532-A-13-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4408-1	BH06	Total/NA	Solid	8015B NM	49973
MB 880-49973/1-A	Method Blank	Total/NA	Solid	8015B NM	49973
LCS 880-49973/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49973
LCSD 880-49973/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49973
880-26532-A-13-F MS	Matrix Spike	Total/NA	Solid	8015B NM	49973
880-26532-A-13-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49973

Analysis Batch: 50064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4408-1	BH06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4408-1	BH06	Soluble	Solid	DI Leach	
MB 880-50159/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50159/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50159/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

HPLC/IC (Continued)

Leach Batch: 50159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4439-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4439-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 50391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4408-1	BH06	Soluble	Solid	300.0	50159
MB 880-50159/1-A	Method Blank	Soluble	Solid	300.0	50159
LCS 880-50159/2-A	Lab Control Sample	Soluble	Solid	300.0	50159
LCSD 880-50159/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50159
890-4439-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	50159
890-4439-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	50159

Lab Chronicle

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

Client Sample ID: BH06

Date Collected: 03/24/23 10:25
Date Received: 03/24/23 12:12

Lab Sample ID: 890-4408-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	50231	04/03/23 15:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50458	04/06/23 16:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50646	04/07/23 18:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			50064	03/31/23 17:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49973	03/30/23 13:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49993	03/31/23 16:01	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50159	04/03/23 10:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50391	04/04/23 16:09	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

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	T104704400-22-25	06-30-23

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

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

Method Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Ensolum
Project/Site: Indian Draw Deep 7 Com 3

Job ID: 890-4408-1
SDG: 03C1558185

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4408-1	BH06	Solid	03/24/23 10:25	03/24/23 12:12	2'

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Ben Beill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852 Email:		bbeill@ensolum.com

Work Order Comments

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

Project Name:	Indian Draw Deep 7 Com 3	Turn Around	
Project Number:	03C1558185	☑ Routine ☐ Rush	
Project Location:	32.41260, -104.12059	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	T-NM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.0

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX	Chlorides	TPH	
BH06	S	3/24/23	1025	2'	G	1		X	X	X	ME

890-4408 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident #:
NAPP2301152626

Cost Center:
1138841001

mroberts@ensolum.com

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			3/24/23 1312	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4408-1
SDG Number: 03C1558185

Login Number: 4408
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4408-1
SDG Number: 03C1558185

Login Number: 4408
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 03/28/23 01:37 PM

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

ENSOLUM

APPENDIX E

NMOCD Notifications

From: Hamlet, Robert, EMNRD
To: Collins, Melanie
Cc: Tacoma Morrissey; DelawareSpills /SM; Green, Garrett J; Ashley Ager; Pennington, Shelby G; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject: (Extension Approval) - XTO - Indian Draw Deep 7 Com 3- Incident Number NAPP2301152626
Date: Wednesday, March 29, 2023 3:10:27 PM
Attachments: image003.png

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2301152626**

Melanie,

Your request for an extension to **June 26th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Tuesday, March 28, 2023 8:48 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Green, Garrett J <garrett.green@exxonmobil.com>; Ashley Ager <aager@ensolum.com>; Pennington, Shelby G <shelby.g.pennington@exxonmobil.com>
Subject: [EXTERNAL] XTO- Extension Request- Indian Draw Deep 7 Com 3- Incident Number NAPP2301152626

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO is requesting an extension for the current deadline of March 28, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for Indian Draw Deep 7 Com 3 (Incident Number NAPP2301152626). The release was discovered on December 28, 2022.

Initial site assessment activities and remediation activities have been ongoing and based on the most recent laboratory analytical reports, additional work is warranted. In order to complete additional remediation activities and submit a remediation work plan or closure report, XTO requests a 90-day extension of this deadline until June 26, 2023.

Thank you,

Melanie Collins

XTO ENERGY

Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: Green, Garrett J
To: Tacoma Morrissey; Ben Belill
Subject: FW: [EXTERNAL] XTO - Sampling Notification (Week of 3/20/23 - 3/24/23)
Date: Friday, March 17, 2023 1:38:12 PM

[**EXTERNAL EMAIL**]

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, March 16, 2023 4:33 PM
To: Green, Garrett J <garrett.green@exxonmobil.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] XTO - Sampling Notification (Week of 3/20/23 - 3/24/23)

External Email – Think Before You Click

Garrett,

Please be aware that notification requirements are **two business days**, per rule. Please include specific days and times you will be sampling each site. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Thursday, March 16, 2023 9:52 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: [EXTERNAL] XTO - Sampling Notification (Week of 3/20/23 - 3/24/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on

links or opening attachments.

All,

XTO plans to complete final sampling activities at the additional site the week of Mar 20, 2023.

-
- PLU 27 BD 163 / nAPP2226337852
- PLU CVX JV BS 008H / NAB1602154960
- PLU 420H / nAB1834656162
- Perla Verde 31 State battery/ nAPP2303444414
- BEU Hackberry / nAB1726335399
- Remuda 500 CTB / nAPP2303854000 & nAPP2306544797
- Indian Deep Com 7/ NAPP2301152626
- Nash Unit 36 / nAPP2224236187

Thank you,

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

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 232271

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 232271
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2301152626 INDIAN DRAW DEEP 7 COM 3, thank you. This Remediation Closure Report is approved.	12/19/2023