ENSOLUM

April 5, 2024

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

Re: Remediation Work Plan
Corral Canyon 16-4 St Fed Com 126H
Incident Number NAPP2335250734
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document site assessment and delineation activities completed to date and proposes remedial actions to address impacted and waste-containing soil identified at the Corral Canyon 16-4 St Fed Com 126H (Site). The purpose of the Site assessment and delineation activities was to determine the presence or absence of impacted soil resulting from a release of produced water at the Site. The following *Work Plan* proposes to excavate impacted and waste-containing soil and requests a Closure Criteria variance.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 16, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.12605°, -103.98646°) and is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On December 8, 2023, a 2-inch Chiksan® joint in the flowback iron washed out during flowback operations, resulting in the release of 14.6 barrels (bbls) of produced water onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover free standing fluids, and approximately 12.0 bbls of released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email and submitted a Release Notification Form C-141 (Form C-141) on December 18, 2023. The release was assigned Incident Number NAPP2335250734.

Since the release remained on pad and inside the lined containment area, the Site is exempt from the Cultural Properties Protection Rule (CPP). As such no additional cultural resource surveys were completed in connection with this release.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess 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 below.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320739103584201, located approximately 0.46 miles northeast of the Site. The groundwater well's most recently reported depth to groundwater measurement was collected on January 29, 1998, at 140 feet bgs. The total depth of the well is 192 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendices A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 760 feet west 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). Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

The NMOCD prefers the nearest depth to groundwater measurement used to determine Closure Criteria be less than 25 years old and within ½ mile of the Site. The USGS water well data is within ½ mile, but 26 years old. Based on the lack of sensitive receptors at the Site, the Site not being underlain by unstable geology, and nearby depth to groundwater data estimating regional depth to groundwater to be greater than 100 feet bgs in multiple directions of the Site, XTO is requesting a variance for the preferred age of the nearest depth to groundwater data guideline. The nearest depth to groundwater data includes:

- The above-mentioned groundwater well USGS 320739103584201 with a recorded depth to groundwater of 140 feet bgs on January 29, 1998, and located 0.46 miles northeast of the Site;
- Groundwater well USGS 320719103584601 with a recorded depth to groundwater of 165 feet bgs, last recorded January, 1977. Located 0.47 miles southeast of the Site;
- Soil boring C-04503, permitted by New Mexico Office of the State Engineer (NMOSE) and located 0.91 miles northwest of the Site, was a soil boring completed completed to determine depth to water on April 19, 2021. The soil boring was drilled via hollow-stem auger and advanced to a depth of 110 feet bgs. No groundwater was encountered during the drilling and the borehole was dry; and
- NMOSE monitoring well C-2371 located 0.72 miles east of the Site with a recorded depth to groundwater of 60 feet bgs, last measured in January 1995. The total depth of the well was 200

feet bgs and groundwater was first encountered at 162 feet bgs, indicating the presence of a confined aquifer. The actual depth to groundwater is 162 feet.

While both USGS water wells are older than the NMOCD preferred age for reference data, historical data from the wells demonstrate depth to groundwater was consistently ±1-foot bgs over a 15-year period for well 320739103584201 and ±5 feet bgs over a 19-year period for well 320719103584601. Additionally, well 320739103584201 only exceeds the NMOCD recommended age of depth to groundwater data by 15 months. The next nearest data is from well C-2371, and although the most recent depth to groundwater measurement was recorded as 60 feet bgs, the aquifer appears to be confined based on the well record and log stating the water bearing zone occurred between 162 feet to 200 feet bgs. Lastly, soil boring C-4503, located 0.91 miles northwest of the Site, was dry to 110 feet bgs in April 2021. The regional depth to groundwater data mentioned above is historically and laterally consistent and, therefore, equally protective of the public, the environment, and groundwater as compared to the preferred guideline for age (less than 25 years) and range (½ mile) of referenced water well data. Ensolum believes the data listed above can reasonably and accurately be used to estimate depth to groundwater at the Site to be greater than 100 feet bgs. Based on the above-mentioned findings, XTO requests NMOCD consider a variance for use of water well data that is greater than 25 years old for estimating of depth to groundwater. All Well Logs used for the depth to groundwater investigation are included in Appendix A.

SITE ASSESSMENT ACTIVITIES

On January 19, 2024, Ensolum personnel conducted a Site assessment to evaluate the release extent based on information provided on Form C-141, information provided by XTO, and visual observations. Four delineation soil samples (SS01 through SS04) were collected at a depth of 0.5 feet bgs to investigate the release extent 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 release extent area was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. A Photographic Log of the release extent and Site conditions is included in Appendix B.

The delineation 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-GRO, TPH-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 are collected may not have equilibrated to the 6 degrees Celsius required for shipment and long term storage but are considered by the laboratory to have been received in acceptable condition.

Based on laboratory analytical results from delineation soil samples SS01 through SS04, impacted and waste-containing soil was identified within the release extent area. Therefore, additional delineation activities are warranted.

DELINEATION SOIL SAMPLING ACTIVITIES

On January 29, 2024, Ensolum returned to the Site to oversee subsurface delineation activities. Four potholes (PH01 through PH04) were advanced to 2 feet bgs by a backhoe to investigate the vertical extent of the release. Potholes PH01 through PH04 were advanced in the vicinity of the locations of soil

samples SS01 through SS04, respectively. Discrete delineation soil samples were collected from the terminal depth of each pothole at 2 feet bgs. Eight discrete soil samples (SS05 through SS12) were collected outside the release extent at a depth of 0.5 feet bgs to define the lateral extent of the release. All delineation soil samples were field screened, handled, and submitted to Eurofins for analysis of the same COCs as described above. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. A photographic log of delineation activities is included in Appendix B. Field screening results and observations for all potholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil sample SS01, collected at 0.5 feet bgs, indicated TPH-GRO/TPH-DRO and chloride concentrations exceeded the Closure Criteria. This was the only delineation soil sample containing COC concentrations exceeding Closure Criteria. However, chloride concentrations in soil samples SS01 through SS04 and TPH concentrations in soil samples SS01, SS02, and SS03 contained COC concentrations exceeding the reclamation requirement. Laboratory analytical results for all other delineation soil samples collected indicated COC concentrations were in compliance with the Closure Criteria and the reclamation requirement. This includes PH01 through PH04, collected at 2 feet bgs, which defines the release vertically, and SS05 through SS12, which defines the release laterally. Laboratory analytical results for all delineation soil samples indicated no benzene or BTEX concentrations were detected in any samples. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from a release of produced water. Based on laboratory analytical results, impacted and waste-containing soil exists across an approximate 7,828 square-foot area within the release footprint at depths ranging from the pad surface to approximately 1-foot bgs. Vertical definition to the Closure Criteria and reclamation requirement was achieved in all potholes. The lateral extent of the release is defined through laboratory analytical results of soil samples SS05 through SS12.

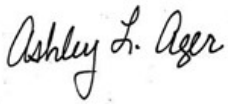
XTO proposes to remove impacted and waste-containing soil identified at the Site. The proposed excavation extent is depicted on Figure 3. Following the removal of impacted soil, confirmation samples will be collected at a sampling frequency of every 200 square feet along the floor and sidewalls of the final excavation extent. Based on delineation soil sample laboratory analytical results, Ensolum anticipates the excavation to extend to a depth of approximately 1.5 feet bgs. The soil samples will be handled and analyzed for the same COCs as described above.

An estimated 450 cubic yards of soil will be removed. The excavated soil will be transferred to a permitted landfill facility for disposal. The excavation will be backfilled and recontoured to match pre-existing Site conditions. Due to an XTO health and safety policy regarding mechanical excavation near active wellheads, a 10-foot buffer will be applied around each wellhead. Confirmation sidewall samples will be collected around the active wellheads.

XTO believes this *Work Plan* is protective of human health, the environment, and groundwater. As such, XTO requests approval of this *Work Plan* and variance by NMOCD. XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD or within 90 days of when XTO operations are discharged from the Site, whichever comes first. If you have

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

Sincerely,
Ensolum, LLC



Benjamin J. Belill
Senior Geologist

Ashley Ager, P.G., M.S.
Principal

cc: Amy Ruth, XTO
Amanda Garcia, XTO
NMSLO

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Proposed Excavation Extent
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

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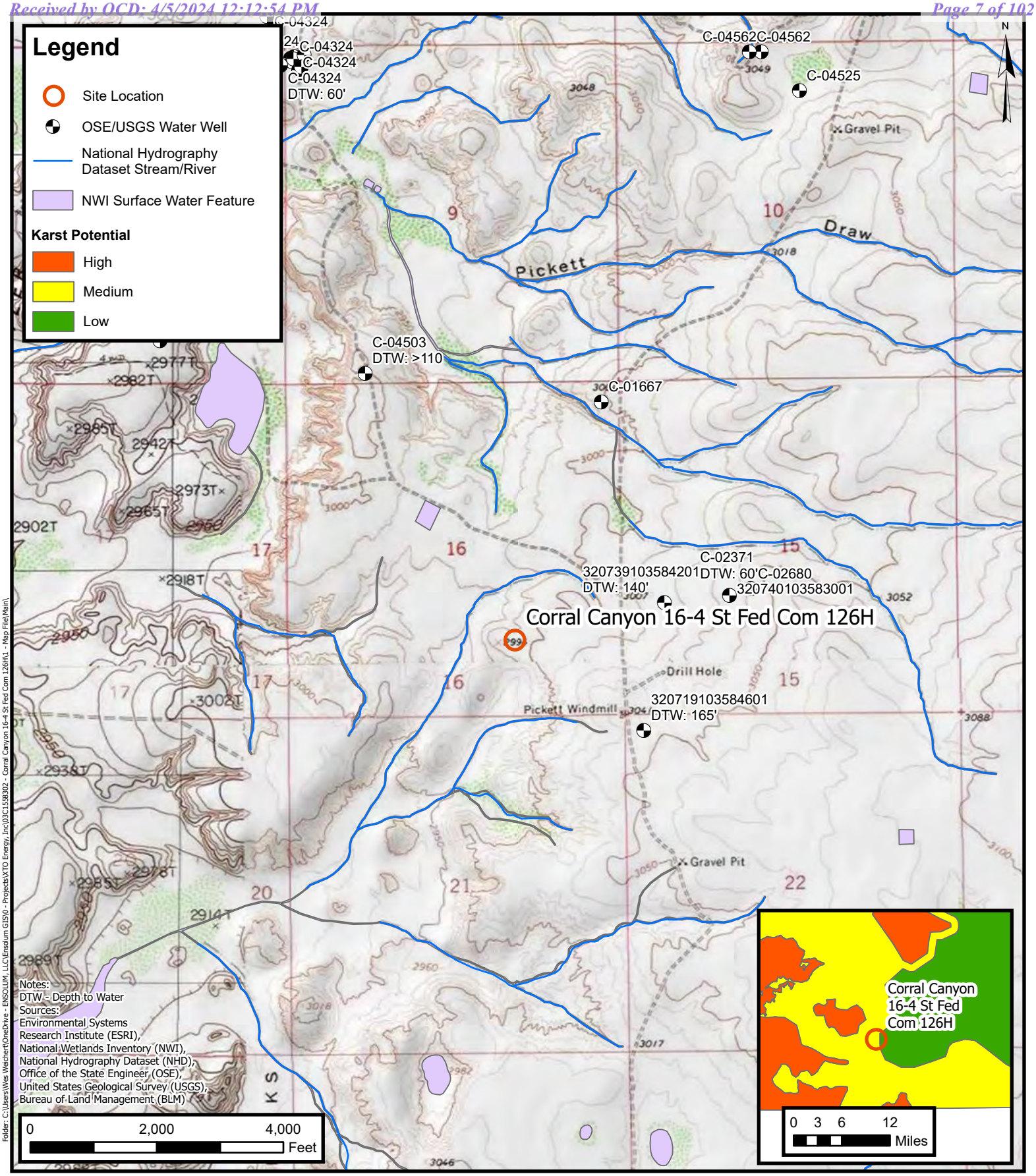
FIGURES



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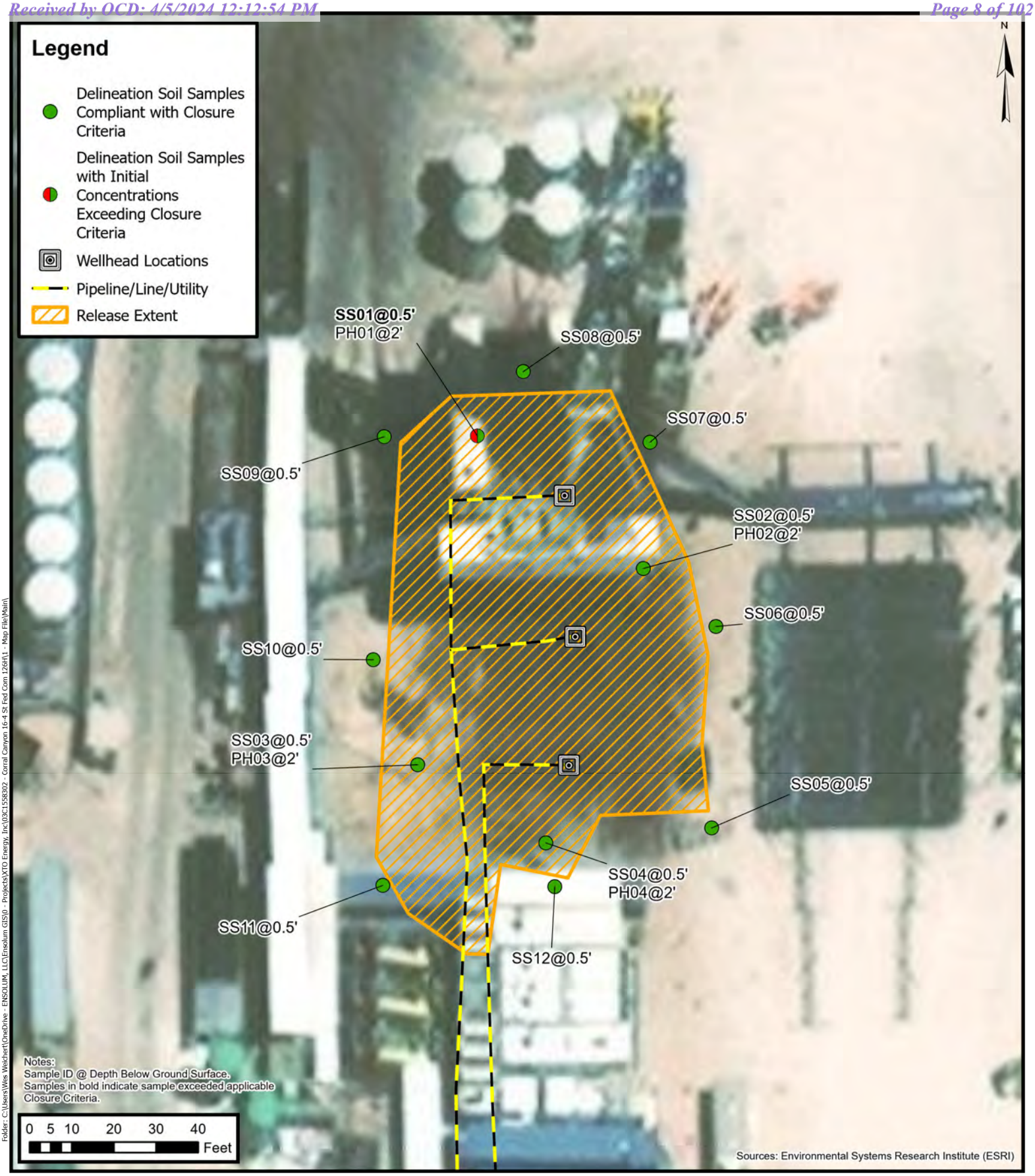
Site Receptor Map

XTO Energy, Inc
Corral Canyon 16-4 St Fed Com 126H
Incident Number: NAPP2335250734
Unit O, Sec 16, T25S, R29E
Eddy Co, New Mexico, United States

FIGURE 1



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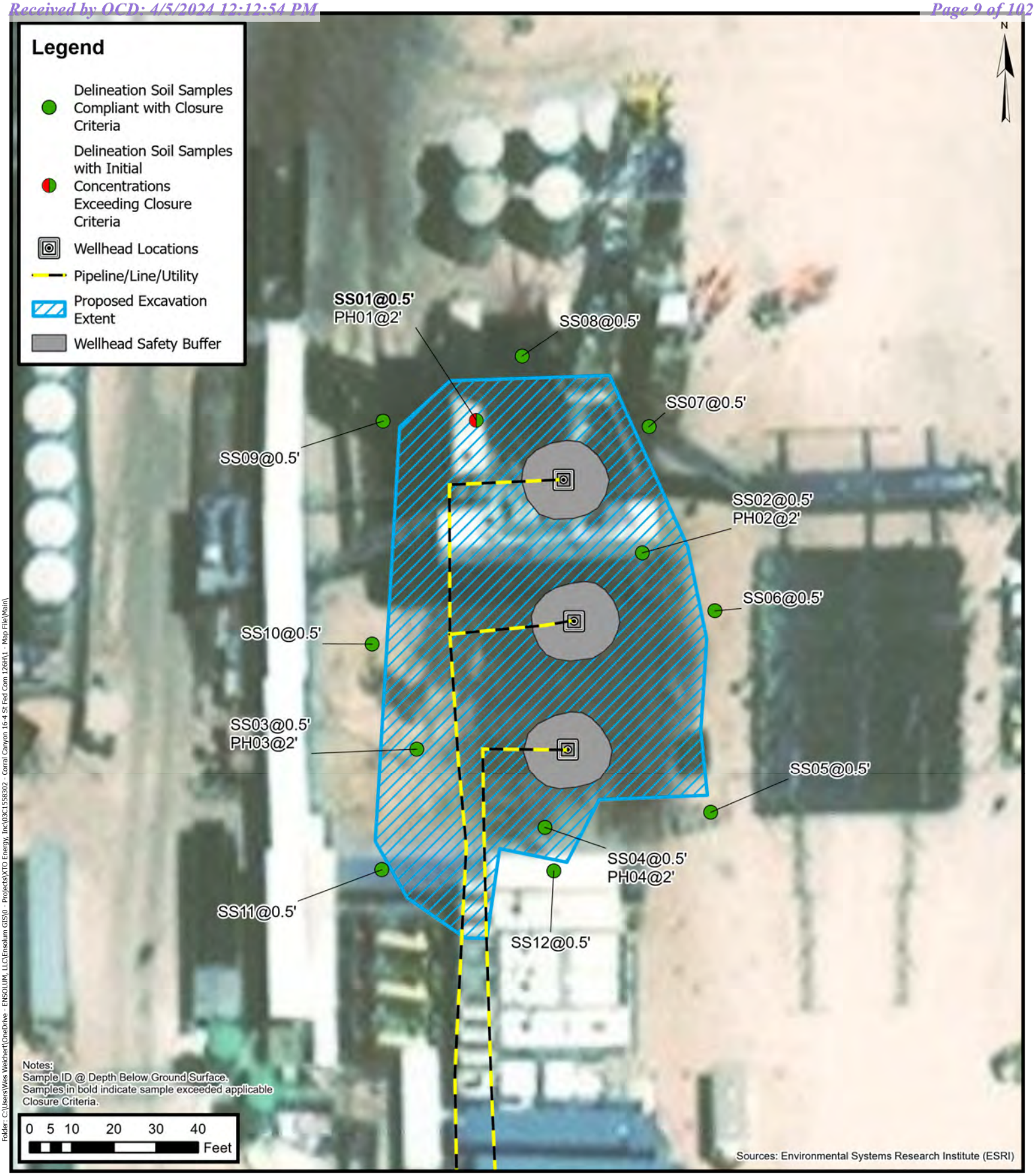
Delineation Soil Sample Locations

XTO Energy, Inc
Corral Canyon 16-4 St Fed Com 126H
Incident Number: NAPP2335250734
Unit O, Sec 16, T25S, R29E
Eddy Co, New Mexico, United States

FIGURE 2



Folder: C:\Users\Wes Welchert\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1598302 - Corral Canyon 16-4 St Fed Com 126H\1 - Map File\Main\

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Proposed Excavation Extent

XTO Energy, Inc
Corral Canyon 16-4 St Fed Com 126H
Incident Number: NAPP2335250734
Unit O, Sec 16, T25S, R29E
Eddy Co, New Mexico, United States

FIGURE 3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Corral Canyon 16-4 ST Fed Com 126H
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	1,000	2,500	20,000
Delineation Soil Samples										
SS01	01/19/2024	0.5	<0.00201	<0.00402	<49.7	1,390	115	**1,390**	1,510	**20,700**
PH01	01/29/2024	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	62.5
SS02	01/19/2024	0.5	<0.00199	<0.00398	<50.0	287	<50.0	287	287	4,230
PH02	01/29/2024	2	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	199
SS03	01/19/2024	0.5	<0.00199	<0.00398	<49.6	133	<49.6	133	133	5,330
PH03	01/29/2024	2	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	413
SS04	01/19/2024	0.5	<0.00200	<0.00399	<49.6	65.2	<49.6	65.2	65.2	1,900
PH04	01/29/2024	2	<0.00202	<0.00403	<50.4	<50.4	<50.4	<50.4	<50.4	267
SS05	01/29/2024	0.5	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	257
SS06	01/29/2024	0.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	271
SS07	01/29/2024	0.5	<0.00200	<0.00400	<50.0	51.0	<50.0	51.0	51.0	507
SS08	01/29/2024	0.5	<0.00199	<0.00398	<50.0	55.7	<50.0	55.7	55.7	204
SS09	01/29/2024	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	445
SS10	01/29/2024	0.5	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6	<49.6	413
SS11	01/29/2024	0.5	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	321
SS12	01/29/2024	0.5	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	<50.4	430

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 or reclamation requirement where applicable.
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

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320739103584201

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320739103584201 25S.29E.15.31134

Eddy County, New Mexico
Latitude 32°07'39", Longitude 103°58'42" NAD27
Land-surface elevation 3,017 feet above NAVD88
The depth of the well is 192 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1983-02-01		D	62610		2875.02	NGVD29	1	Z		
1983-02-01		D	62611		2876.60	NAVD88	1	Z		
1983-02-01		D	72019	140.40			1	Z		
1987-10-20		D	62610		2875.09	NGVD29	1	Z		
1987-10-20		D	62611		2876.67	NAVD88	1	Z		
1987-10-20		D	72019	140.33			1	Z		
1992-11-06		D	62610		2874.61	NGVD29	1	S		
1992-11-06		D	62611		2876.19	NAVD88	1	S		
1992-11-06		D	72019	140.81			1	S		
1998-01-29		D	62610		2874.52	NGVD29	1	S		
1998-01-29		D	62611		2876.10	NAVD88	1	S		
1998-01-29		D	72019	140.90			1	S		

Explanation

Section	Code	Description

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320719103584601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320719103584601 25S.29E.16.44444

Eddy County, New Mexico
Latitude 32°07'19", Longitude 103°58'46" NAD27
Land-surface elevation 3,042 feet above NAVD88
The depth of the well is 200 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1958-08-19		D	62610		2870.28	NGVD29	1	Z			A
1958-08-19		D	62611		2871.86	NAVD88	1	Z			A
1958-08-19		D	72019	170.14			1	Z			A
1958-10-23		D	62610		2869.62	NGVD29	1	Z			A
1958-10-23		D	62611		2871.20	NAVD88	1	Z			A
1958-10-23		D	72019	170.80			1	Z			A
1975-12-09		D	62610		2875.47	NGVD29	1	S			A
1975-12-09		D	62611		2877.05	NAVD88	1	S			A
1975-12-09		D	72019	164.95			1	S			A
1976-01-16		D	62610		2873.30	NGVD29	1	S			A
1976-01-16		D	62611		2874.88	NAVD88	1	S			A
1976-01-16		D	72019	167.12			1	S			A
1977-01-14		D	62610		2875.37	NGVD29	1	S			A
1977-01-14		D	62611		2876.95	NAVD88	1	S			A
1977-01-14		D	72019	165.05			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined

Section	Code	Description
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2024-04-04 15:11:18 EDT
0.28 0.25 nadww02

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

465299
TM 194253

'95 MAR 16 AM 11 10
STATE ENGINEER OFFICE
SANTA FE NEW MEXICO

Section 1. GENERAL INFORMATION

(A) Owner of well Johnny Reid Owner's Well No. 2
Street or Post Office Address 245 E. London Rd.
City and State Loving, N.M. 88256

Well was drilled under Permit No. C-2371 and is located in the:

a. NE ¼ SW ¼ ¼ ¼ of Section 15 Township 25S Range 29E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Eddy County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Campbell Drilling License No. WD-1259

Address 10 W. Blevins Rd. Artesia, N.M. 88210

Drilling Began 1-12-95 Completed 1-24-95 Type tools cable Size of hole 10 1/2 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 200 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 60 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
162	200	638	Conglomerated rock or sand	20 GPM +

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
7	23		1 1/2	200		collar	140	200

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
			none		

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:

_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 02-01-95

Quad _____ FWL _____ FSL _____

File No. C-2371 Use Stock Location No. 25.29.15.32131

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	3	3	Top Soil
3	42	39	Gravel Rock & very little shale
42	161	119	Sandstone (solid)
161	200	39	Conglomerated rock & some sand (water bearing)

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
ROSWELL NEW MEXICO
'95 FEB 1 AM 11 45

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Mike Campbell
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1 and Section 5 need be completed.

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (BH-01)	n/a	C-4503

WELL OWNER NAME(S)	PHONE (OPTIONAL)
XTO Energy (Kyle Littrell)	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6401 Holiday Hill Dr.	Midland	TX	79707

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	8	15.74	N
	LONGITUDE	103	59	38.34	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

SWSW S9 T25S R29E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
04/19/2021	04/19/2021	temporary well material	110	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

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

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	110	±6.5	Boring- HSA	–	–	–	–

OSE DII MAY 5 2021 PM 1:06

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	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4503	POD NO. 1	TRN NO. 682792
LOCATION Expl 25S.29E.9.334	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	4	4	Caliche, tan, off-white,dry, tan sand m-f grained, well sorted, trace silt	Y ✓ N	
4	41	37	Sand, tan, m-f, well sorted, little caliche gravel, tan, trace silt, low consolidation	Y ✓ N	
41	--	--	Sandy clay, brown, non plastic, non cohesive, no odor, no stain, m-f grained, wel	Y ✓ N	
43	46	5	increase in clay content, low plasticity Claystone,brown, light brown mottling,	Y ✓ N	
46	110	64	Claystone,brown, light brown mottling, cohesive, medium plasticity	Y ✓ N	
				Y N	
				Y N	
				Y N	
				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): 0.00

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: Corral Canyon 212H. Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.
Logs adapted from WSP on-site geologist.

OSE DII MAY 5 2021 PM4:04

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

Shane Eldridge

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:

Jack Atkins — Jackie D. Atkins — 05/05/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4503	POD NO. 1	TRN NO. 682792
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc.
Corral Canyon 16-4 St Fed Com 126H
Incident Number nAPP2335250734

Photograph: 1 Date: 1/19/2024
Description: Site assessment, release extent area.
View: Northeast

Photograph: 2 Date: 1/19/2024
Description: Site assessment, release extent area.
View: South

Photograph: 3 Date: 1/29/2024
Description: Delineation activities, PH01.
View: Southeast

Photograph: 4 Date: 1/29/2024
Description: Delineation activities, PH04.
View: Northeast

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: PH01	Date: 1/29/2024
	Site Name: Corral Canyon 16-4 ST FED COM 126H	
	Incident Number: NAPP2335250734	
	Job Number: 03C1558302	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: M. O'Dell	Method: Backhoe
Coordinates: 32.126093, -103.986555	Hole Diameter: ~3'	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. All chloride measurements done with a +40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	CALICHE, off white, dry, moderatly-well consolidated, very silty, no stain, no odor.
D	33,370	0.6	Y	SS01	0.5			
D	1,350	16.0	N		1	1		
D	<168	0.0	N	PH01	2	2		

Total Depth @ 2' bgs.

ENSOLUM

	Sample Name: PH02	Date: 1/29/2024
	Site Name: Corral Canyon 16-4 ST FED COM 126H	
	Incident Number: NAPP2335250734	
	Job Number: 03C1558302	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: M. O'Dell	Method: Backhoe
Coordinates: 32.125985, -103.98986434	Hole Diameter: ~3'	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. All chloride measurements done with a +40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	CALICHE, off white, dry, moderatly-well consolidated, very silty, no stain, no odor.
D	3,466	0.2	N	SS02	0.5			
D	1,400	0.0	N		1	1		
D	<168	0.0	N	PH02	2	2		

Total Depth @ 2' bgs.

ENSOLUM

	Sample Name: PH03	Date: 1/29/2024
	Site Name: Corral Canyon 16-4 ST FED COM 126H	
	Incident Number: NAPP2335250734	
	Job Number: 03C1558302	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: M. O'Dell	Method: Backhoe
Coordinates: 32.125867, -103.989601	Hole Diameter: ~3'	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. All chloride measurements done with a +40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	CALICHE, off white, dry, moderatly-well consolidated, very silty, no stain, no odor.
D	10,018	0.3	N	SS03	0.5			
D	1,689	0.0	N		1	1		
D	<168	0.0	N	PH03	2	2		

Total Depth @ 2' bgs.

ENSOLUM

	Sample Name: PH04	Date: 1/29/2024
	Site Name: Corral Canyon 16-4 ST FED COM 126H	
	Incident Number: NAPP2335250734	
	Job Number: 03C1558302	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: M. O'Dell	Method: Backhoe
Coordinates: 32.125805, -103.986504	Hole Diameter: ~3'	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. All chloride measurements done with a +40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	CALICHE, off white, dry, moderatly-well consolidated, very silty, no stain, no odor.
D	2,587	0.2	N	SS04	0.5			
D	717	0.0	N		1	1		
D	207.2	0.0	N	PH04	2	2		

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

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JOB DESCRIPTION

Corral Canyon 16-4 St Fed Com 126H
03C15583C2

JOB NUMBER

890-5999-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

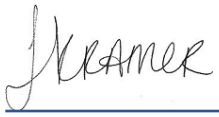
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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2/13/2024 12:23:26 PM
Revision 1

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

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Laboratory Job ID: 890-5999-1
SDG: 03C15583C2

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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
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 Job ID: 890-5999-1
Project: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1 Eurofins Carlsbad

Job Narrative
890-5999-1

REVISION

The report being provided is a revision of the original report sent on 2/2/2024. The report (revision 1) is being revised due to Per client email, requesting project name correction.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/22/2024 8:09 AM. 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 1.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-5999-1), SS02 (890-5999-2), SS03 (890-5999-3) and SS04 (890-5999-4).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-5999-1) and SS02 (890-5999-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71830 and analytical batch 880-72093 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-71573 and analytical batch 880-71736 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.

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

Client Sample ID: SS01

Date Collected: 01/19/24 12:54
Date Received: 01/22/24 08:09
Sample Depth: 0.5'

Lab Sample ID: 890-5999-1
Matrix: Solid

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		01/29/24 13:34	02/01/24 16:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:34	02/01/24 16:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:34	02/01/24 16:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/29/24 13:34	02/01/24 16:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:34	02/01/24 16:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/29/24 13:34	02/01/24 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*01/29/24 13:34*	*02/01/24 16:45*	*1*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*01/29/24 13:34*	*02/01/24 16:45*	*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			02/01/24 16:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1510**		49.7		mg/Kg			01/26/24 03:18	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	<49.7	U	49.7		mg/Kg		01/24/24 09:03	01/26/24 03:18	1
Diesel Range Organics (Over C10-C28)	**1390**		49.7		mg/Kg		01/24/24 09:03	01/26/24 03:18	1
Oil Range Organics (Over C28-C36)	**115**		49.7		mg/Kg		01/24/24 09:03	01/26/24 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*01/24/24 09:03*	*01/26/24 03:18*	*1*
o-Terphenyl	*93*		*70 - 130*	*01/24/24 09:03*	*01/26/24 03:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20700**		249		mg/Kg			01/28/24 23:18	50

Client Sample ID: SS02

Date Collected: 01/19/24 12:57
Date Received: 01/22/24 08:09
Sample Depth: 0.5'

Lab Sample ID: 890-5999-2
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		01/29/24 13:34	02/01/24 17:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:34	02/01/24 17:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:34	02/01/24 17:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:34	02/01/24 17:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:34	02/01/24 17:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:34	02/01/24 17:05	1

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

Client Sample ID: SS02

Date Collected: 01/19/24 12:57
Date Received: 01/22/24 08:09
Sample Depth: 0.5'

Lab Sample ID: 890-5999-2
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*01/29/24 13:34*	*02/01/24 17:05*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*01/29/24 13:34*	*02/01/24 17:05*	*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			02/01/24 17:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**287**		50.0	mg/Kg			01/26/24 13:52	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		01/25/24 16:32	01/26/24 13:52	1
Diesel Range Organics (Over C10-C28)	**287**		50.0	mg/Kg		01/25/24 16:32	01/26/24 13:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/25/24 16:32	01/26/24 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*86*		*70 - 130*	*01/25/24 16:32*	*01/26/24 13:52*	*1*
o-Terphenyl	*101*		*70 - 130*	*01/25/24 16:32*	*01/26/24 13:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4230**		49.6	mg/Kg			01/28/24 23:24	10

Client Sample ID: SS03

Date Collected: 01/19/24 13:02
Date Received: 01/22/24 08:09
Sample Depth: 0.5'

Lab Sample ID: 890-5999-3
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		01/29/24 13:34	02/01/24 17:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/29/24 13:34	02/01/24 17:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/29/24 13:34	02/01/24 17:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/29/24 13:34	02/01/24 17:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/29/24 13:34	02/01/24 17:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/29/24 13:34	02/01/24 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*01/29/24 13:34*	*02/01/24 17:26*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*01/29/24 13:34*	*02/01/24 17:26*	*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			02/01/24 17:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**133**		49.6	mg/Kg			01/26/24 14:39	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

Client Sample ID: SS03

Date Collected: 01/19/24 13:02
Date Received: 01/22/24 08:09
Sample Depth: 0.5'

Lab Sample ID: 890-5999-3
Matrix: Solid

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	<49.6	U	49.6		mg/Kg		01/25/24 16:32	01/26/24 14:39	1
Diesel Range Organics (Over C10-C28)	**133**		49.6		mg/Kg		01/25/24 16:32	01/26/24 14:39	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/25/24 16:32	01/26/24 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*01/25/24 16:32*	*01/26/24 14:39*	*1*
o-Terphenyl	*106*		*70 - 130*	*01/25/24 16:32*	*01/26/24 14:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5330**		49.7		mg/Kg			01/28/24 23:31	10

Client Sample ID: SS04

Date Collected: 01/19/24 13:05
Date Received: 01/22/24 08:09
Sample Depth: 0.5'

Lab Sample ID: 890-5999-4
Matrix: Solid

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		01/29/24 13:34	02/01/24 17:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 17:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 17:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/29/24 13:34	02/01/24 17:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 17:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/29/24 13:34	02/01/24 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*01/29/24 13:34*	*02/01/24 17:46*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*01/29/24 13:34*	*02/01/24 17:46*	*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			02/01/24 17:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**65.2**		49.6		mg/Kg			01/26/24 15:03	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	<49.6	U	49.6		mg/Kg		01/25/24 16:32	01/26/24 15:03	1
Diesel Range Organics (Over C10-C28)	**65.2**		49.6		mg/Kg		01/25/24 16:32	01/26/24 15:03	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/25/24 16:32	01/26/24 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*01/25/24 16:32*	*01/26/24 15:03*	*1*
o-Terphenyl	*102*		*70 - 130*	*01/25/24 16:32*	*01/26/24 15:03*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

Client Sample ID: SS04
Date Collected: 01/19/24 13:05
Date Received: 01/22/24 08:09
Sample Depth: 0.5'

Lab Sample ID: 890-5999-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1900		25.3		mg/Kg			01/28/24 23:38	5

Surrogate Summary

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

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)
880-38339-A-101-C MS	Matrix Spike	116	99
880-38339-A-101-D MSD	Matrix Spike Duplicate	118	104
890-5999-1	SS01	80	67 S1-
890-5999-2	SS02	68 S1-	72
890-5999-3	SS03	93	75
890-5999-4	SS04	74	77
LCS 880-71830/1-A	Lab Control Sample	119	101
LCSD 880-71830/2-A	Lab Control Sample Dup	118	103
MB 880-71830/5-A	Method Blank	72	86

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)
880-38285-A-101-F MS	Matrix Spike	92	86
880-38285-A-101-G MSD	Matrix Spike Duplicate	96	90
890-5999-1	SS01	97	93
890-5999-2	SS02	86	101
890-5999-3	SS03	90	106
890-5999-4	SS04	92	102
890-6020-A-1-F MS	Matrix Spike	116	119
890-6020-A-1-G MSD	Matrix Spike Duplicate	114	117
LCS 880-71494/2-A	Lab Control Sample	98	123
LCS 880-71622/2-A	Lab Control Sample	86	109
LCSD 880-71494/3-A	Lab Control Sample Dup	90	108
LCSD 880-71622/3-A	Lab Control Sample Dup	75	92
MB 880-71494/1-A	Method Blank	97	104
MB 880-71622/1-A	Method Blank	108	129

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71830/5-A
Matrix: Solid
Analysis Batch: 72093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71830

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 10:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 10:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 10:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:34	02/01/24 10:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 10:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:34	02/01/24 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*01/29/24 13:34*	*02/01/24 10:52*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/29/24 13:34*	*02/01/24 10:52*	*1*

Lab Sample ID: LCS 880-71830/1-A
Matrix: Solid
Analysis Batch: 72093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71830

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09795		mg/Kg		98	70 - 130		
Toluene			0.100	0.1028		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.1207		mg/Kg		121	70 - 130		
m-Xylene & p-Xylene			0.200	0.2505		mg/Kg		125	70 - 130		
o-Xylene			0.100	0.1200		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-71830/2-A
Matrix: Solid
Analysis Batch: 72093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71830

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09384		mg/Kg		94	70 - 130	4	35
Toluene			0.100	0.09496		mg/Kg		95	70 - 130	8	35
Ethylbenzene			0.100	0.1144		mg/Kg		114	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2345		mg/Kg		117	70 - 130	7	35
o-Xylene			0.100	0.1120		mg/Kg		112	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-38339-A-101-C MS
Matrix: Solid
Analysis Batch: 72093

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71830

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.08277		mg/Kg		83	70 - 130		
Toluene	<0.00201	U	0.100	0.08249		mg/Kg		82	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

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

Lab Sample ID: 880-38339-A-101-C MS
Matrix: Solid
Analysis Batch: 72093

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71830

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09763		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1967		mg/Kg		98	70 - 130
o-Xylene	<0.00201	U	0.100	0.09515		mg/Kg		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-38339-A-101-D MSD
Matrix: Solid
Analysis Batch: 72093

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71830

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.1095		mg/Kg		111	70 - 130	28	35
Toluene	<0.00201	U	0.0990	0.1078		mg/Kg		109	70 - 130	27	35
Ethylbenzene	<0.00201	U	0.0990	0.1249		mg/Kg		126	70 - 130	25	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.2585	F1	mg/Kg		131	70 - 130	27	35
o-Xylene	<0.00201	U	0.0990	0.1237		mg/Kg		125	70 - 130	26	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 880-71494/1-A
Matrix: Solid
Analysis Batch: 71545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71494

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		01/24/24 09:03	01/25/24 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/24 09:03	01/25/24 19:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/24 09:03	01/25/24 19:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*01/24/24 09:03*	*01/25/24 19:43*	*1*
o-Terphenyl	*104*		*70 - 130*	*01/24/24 09:03*	*01/25/24 19:43*	*1*

Lab Sample ID: LCS 880-71494/2-A
Matrix: Solid
Analysis Batch: 71545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71494

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	991.7		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)			1000	988.8		mg/Kg		99	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

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

Lab Sample ID: LCS 880-71494/2-A
Matrix: Solid
Analysis Batch: 71545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71494

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: LCSD 880-71494/3-A
Matrix: Solid
Analysis Batch: 71545

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71494

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	976.2		mg/Kg		98	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	963.2		mg/Kg		96	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-38285-A-101-F MS
Matrix: Solid
Analysis Batch: 71545

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	871.2		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	999	963.8		mg/Kg		94	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 880-38285-A-101-G MSD
Matrix: Solid
Analysis Batch: 71545

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71494

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	<49.8	U	999	905.0		mg/Kg		91	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1023		mg/Kg		100	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	90		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

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

Lab Sample ID: MB 880-71622/1-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71622

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		01/25/24 16:31	01/26/24 07:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 16:31	01/26/24 07:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 16:31	01/26/24 07:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*01/25/24 16:31*	*01/26/24 07:06*	*1*
o-Terphenyl	*129*		*70 - 130*	*01/25/24 16:31*	*01/26/24 07:06*	*1*

Lab Sample ID: LCS 880-71622/2-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71622

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	928.7		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	932.5		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: LCSD 880-71622/3-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71622

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	878.9		mg/Kg		88	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	863.5		mg/Kg		86	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*75*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 890-6020-A-1-F MS
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	1010	929.4		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.5	U	1010	1269		mg/Kg		124	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

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

Lab Sample ID: 890-6020-A-1-F MS
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71622

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: 890-6020-A-1-G MSD
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71622

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	<50.5	U	1010	960.4		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.5	U	1010	1262		mg/Kg		123	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71573/1-A
Matrix: Solid
Analysis Batch: 71736

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			01/28/24 21:56	1

Lab Sample ID: LCS 880-71573/2-A
Matrix: Solid
Analysis Batch: 71736

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	272.1		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-71573/3-A
Matrix: Solid
Analysis Batch: 71736

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	273.7		mg/Kg		109	90 - 110	1	20

Lab Sample ID: 880-38374-A-12-B MS
Matrix: Solid
Analysis Batch: 71736

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	2660	F1	1250	4029		mg/Kg		110	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-38374-A-12-C MSD
Matrix: Solid
Analysis Batch: 71736

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	2660	F1	1250	4042	F1	mg/Kg		111	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

GC VOA

Prep Batch: 71830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5999-1	SS01	Total/NA	Solid	5035	
890-5999-2	SS02	Total/NA	Solid	5035	
890-5999-3	SS03	Total/NA	Solid	5035	
890-5999-4	SS04	Total/NA	Solid	5035	
MB 880-71830/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71830/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71830/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38339-A-101-C MS	Matrix Spike	Total/NA	Solid	5035	
880-38339-A-101-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5999-1	SS01	Total/NA	Solid	8021B	71830
890-5999-2	SS02	Total/NA	Solid	8021B	71830
890-5999-3	SS03	Total/NA	Solid	8021B	71830
890-5999-4	SS04	Total/NA	Solid	8021B	71830
MB 880-71830/5-A	Method Blank	Total/NA	Solid	8021B	71830
LCS 880-71830/1-A	Lab Control Sample	Total/NA	Solid	8021B	71830
LCSD 880-71830/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71830
880-38339-A-101-C MS	Matrix Spike	Total/NA	Solid	8021B	71830
880-38339-A-101-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71830

Analysis Batch: 72206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5999-1	SS01	Total/NA	Solid	Total BTEX	
890-5999-2	SS02	Total/NA	Solid	Total BTEX	
890-5999-3	SS03	Total/NA	Solid	Total BTEX	
890-5999-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5999-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-71494/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71494/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71494/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38285-A-101-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38285-A-101-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5999-1	SS01	Total/NA	Solid	8015B NM	71494
MB 880-71494/1-A	Method Blank	Total/NA	Solid	8015B NM	71494
LCS 880-71494/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71494
LCSD 880-71494/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71494
880-38285-A-101-F MS	Matrix Spike	Total/NA	Solid	8015B NM	71494
880-38285-A-101-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71494

QC Association Summary

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

GC Semi VOA

Prep Batch: 71622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5999-2	SS02	Total/NA	Solid	8015NM Prep	
890-5999-3	SS03	Total/NA	Solid	8015NM Prep	
890-5999-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-71622/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71622/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6020-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6020-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5999-2	SS02	Total/NA	Solid	8015B NM	71622
890-5999-3	SS03	Total/NA	Solid	8015B NM	71622
890-5999-4	SS04	Total/NA	Solid	8015B NM	71622
MB 880-71622/1-A	Method Blank	Total/NA	Solid	8015B NM	71622
LCS 880-71622/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71622
LCSD 880-71622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71622
890-6020-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	71622
890-6020-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71622

Analysis Batch: 71663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5999-1	SS01	Total/NA	Solid	8015 NM	
890-5999-2	SS02	Total/NA	Solid	8015 NM	
890-5999-3	SS03	Total/NA	Solid	8015 NM	
890-5999-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5999-1	SS01	Soluble	Solid	DI Leach	
890-5999-2	SS02	Soluble	Solid	DI Leach	
890-5999-3	SS03	Soluble	Solid	DI Leach	
890-5999-4	SS04	Soluble	Solid	DI Leach	
MB 880-71573/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71573/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71573/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38374-A-12-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38374-A-12-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5999-1	SS01	Soluble	Solid	300.0	71573
890-5999-2	SS02	Soluble	Solid	300.0	71573
890-5999-3	SS03	Soluble	Solid	300.0	71573
890-5999-4	SS04	Soluble	Solid	300.0	71573
MB 880-71573/1-A	Method Blank	Soluble	Solid	300.0	71573
LCS 880-71573/2-A	Lab Control Sample	Soluble	Solid	300.0	71573
LCSD 880-71573/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71573
880-38374-A-12-B MS	Matrix Spike	Soluble	Solid	300.0	71573

QC Association Summary

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

HPLC/IC (Continued)

Analysis Batch: 71736 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38374-A-12-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71573

Lab Chronicle

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

Client Sample ID: SS01
Date Collected: 01/19/24 12:54
Date Received: 01/22/24 08:09

Lab Sample ID: 890-5999-1
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			4.98 g	5 mL	71830	01/29/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72093	02/01/24 16:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72206	02/01/24 16:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			71663	01/26/24 03:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71494	01/24/24 09:03	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71545	01/26/24 03:18	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		50			71736	01/28/24 23:18	CH	EET MID

Client Sample ID: SS02
Date Collected: 01/19/24 12:57
Date Received: 01/22/24 08:09

Lab Sample ID: 890-5999-2
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	71830	01/29/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72093	02/01/24 17:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72206	02/01/24 17:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			71663	01/26/24 13:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71622	01/25/24 16:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 13:52	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		10			71736	01/28/24 23:24	CH	EET MID

Client Sample ID: SS03
Date Collected: 01/19/24 13:02
Date Received: 01/22/24 08:09

Lab Sample ID: 890-5999-3
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	71830	01/29/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72093	02/01/24 17:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72206	02/01/24 17:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			71663	01/26/24 14:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	71622	01/25/24 16:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 14:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		10			71736	01/28/24 23:31	CH	EET MID

Client Sample ID: SS04
Date Collected: 01/19/24 13:05
Date Received: 01/22/24 08:09

Lab Sample ID: 890-5999-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71830	01/29/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72093	02/01/24 17:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72206	02/01/24 17:46	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

Client Sample ID: SS04

Date Collected: 01/19/24 13:05
Date Received: 01/22/24 08:09

Lab Sample ID: 890-5999-4

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			71663	01/26/24 15:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	71622	01/25/24 16:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 15:03	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		5			71736	01/28/24 23:38	CH	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: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

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	T104704400-23-26	06-30-24

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: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

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: Corral Canyon 16-4 St Fed Com 126H

Job ID: 890-5999-1
SDG: 03C15583C2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5999-1	SS01	Solid	01/19/24 12:54	01/22/24 08:09	0.5'
890-5999-2	SS02	Solid	01/19/24 12:57	01/22/24 08:09	0.5'
890-5999-3	SS03	Solid	01/19/24 13:02	01/22/24 08:09	0.5'
890-5999-4	SS04	Solid	01/19/24 13:05	01/22/24 08:09	0.5'

Loc: 890
5999

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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

890-5999 Chain of Custody

5999

www.xenco.com Page 1 of 1

Project Manager:	Ben Belill	Bill to: (if different)	Garret Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks HWY	Address:	3104 E Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	984-854-6852	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:	Corral Canyon 16-4	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558302	Due Date:	
Project Location:	32.12605, -103.98646	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Mario Marquez		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	Talmoo	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.0	
Total Containers:		Corrected Temperature:	1.8	

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	Parameters: BTEX	TPH	Chlorides	Sample Comments
~~BH6~~ MS SS01	S	1/19/24	12:54	0.5'	G	1	✓	✓	✓	Cost Center
SS02	S	1/19/24	12:57	0.5'	G	1	✓	✓	✓	187010001
SS03	S	1/19/24	13:02	0.5'	G	1	✓	✓	✓	Incident #
SS04	S	1/19/24	13:05	0.5'	G	1	✓	✓	✓	NAPP2335260734
Temp Blank										
Trip Blank										

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		1/19/24 15:30	2	1/19 1530	
3			4		
5			5		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5999-1
SDG Number: 03C15583C2

Login Number: 5999
List Number: 1
Creator: Lopez, Abraham

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: 890-5999-1
SDG Number: 03C15583C2

Login Number: 5999
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/23/24 12:33 PM

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 2/12/2024 10:12:10 AM

JOB DESCRIPTION

Corral Canyon 16-4 ST Fed Com 126H
03C1558302

JOB NUMBER

890-6065-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

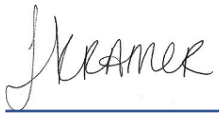
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
2/12/2024 10:12:10 AM

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

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-6065-1
Project/Site: Corral Canyon 16-4 ST Fed Com 126H SDG: 03C1558302

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
F1	MS and/or MSD recovery exceeds control limits.
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 Job ID: 890-6065-1
Project: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1 Eurofins Carlsbad

Job Narrative
890-6065-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/30/2024 9:18 AM. 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: PH 01 (890-6065-1), PH 02 (890-6065-2), PH 03 (890-6065-3), PH 04 (890-6065-4), SS 05 (890-6065-5), SS 06 (890-6065-6), SS 07 (890-6065-7), SS 08 (890-6065-8), SS 09 (890-6065-9), SS 10 (890-6065-10), SS 11 (890-6065-11) and SS 12 (890-6065-12).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: PH 01 (890-6065-1). 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 870-17831 and analytical batch 870-17833 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC
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: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: PH 01

Lab Sample ID: 890-6065-1
Matrix: Solid
Date Collected: 01/29/24 09:45
Date Received: 01/30/24 09:18
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		02/06/24 13:45	02/09/24 17:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/24 13:45	02/09/24 17:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/24 13:45	02/09/24 17:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/24 13:45	02/09/24 17:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/24 13:45	02/09/24 17:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/24 13:45	02/09/24 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*240*	*S1+*	*70 - 130*	*02/06/24 13:45*	*02/09/24 17:08*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/06/24 13:45*	*02/09/24 17:08*	*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			02/09/24 17:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/08/24 04:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U F1	49.8		mg/Kg		02/02/24 16:37	02/08/24 04:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8		mg/Kg		02/02/24 16:37	02/08/24 04:16	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/02/24 16:37	02/08/24 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*70 - 130*	*02/02/24 16:37*	*02/08/24 04:16*	*1*
1-Chlorooctane	*88*		*70 - 130*	*02/02/24 16:37*	*02/08/24 04:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.5**		4.96		mg/Kg			02/04/24 14:36	1

Client Sample ID: PH 02

Lab Sample ID: 890-6065-2
Matrix: Solid
Date Collected: 01/29/24 10:25
Date Received: 01/30/24 09:18
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		02/06/24 13:45	02/09/24 17:28	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/06/24 13:45	02/09/24 17:28	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/06/24 13:45	02/09/24 17:28	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/06/24 13:45	02/09/24 17:28	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/06/24 13:45	02/09/24 17:28	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/06/24 13:45	02/09/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/06/24 13:45*	*02/09/24 17:28*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/06/24 13:45*	*02/09/24 17:28*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: PH 02

Date Collected: 01/29/24 10:25
Date Received: 01/30/24 09:18
Sample Depth: 2'

Lab Sample ID: 890-6065-2
Matrix: Solid

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			02/09/24 17:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/08/24 05:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.1	U	50.1		mg/Kg		02/02/24 16:37	02/08/24 05:18	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/02/24 16:37	02/08/24 05:18	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/02/24 16:37	02/08/24 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*70 - 130*	*02/02/24 16:37*	*02/08/24 05:18*	*1*
1-Chlorooctane	*92*		*70 - 130*	*02/02/24 16:37*	*02/08/24 05:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**199**		5.04		mg/Kg			02/04/24 14:42	1

Client Sample ID: PH 03

Date Collected: 01/29/24 15:00
Date Received: 01/30/24 09:18
Sample Depth: 2'

Lab Sample ID: 890-6065-3
Matrix: Solid

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		02/06/24 13:45	02/09/24 17:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/24 13:45	02/09/24 17:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/24 13:45	02/09/24 17:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/24 13:45	02/09/24 17:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/24 13:45	02/09/24 17:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/06/24 13:45	02/09/24 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/06/24 13:45*	*02/09/24 17:49*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*02/06/24 13:45*	*02/09/24 17:49*	*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			02/09/24 17:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/08/24 05:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.2	U	50.2		mg/Kg		02/02/24 16:37	02/08/24 05:39	1

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: PH 03

Date Collected: 01/29/24 15:00
Date Received: 01/30/24 09:18
Sample Depth: 2'

Lab Sample ID: 890-6065-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/02/24 16:37	02/08/24 05:39	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/02/24 16:37	02/08/24 05:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*102*		*70 - 130*	*02/02/24 16:37*	*02/08/24 05:39*	*1*
1-Chlorooctane	*95*		*70 - 130*	*02/02/24 16:37*	*02/08/24 05:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**413**		4.99		mg/Kg			02/05/24 07:55	1

Client Sample ID: PH 04

Date Collected: 01/29/24 12:20
Date Received: 01/30/24 09:18
Sample Depth: 2'

Lab Sample ID: 890-6065-4
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		02/06/24 13:45	02/09/24 18:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/24 13:45	02/09/24 18:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/24 13:45	02/09/24 18:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/06/24 13:45	02/09/24 18:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/24 13:45	02/09/24 18:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/06/24 13:45	02/09/24 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*02/06/24 13:45*	*02/09/24 18:09*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/06/24 13:45*	*02/09/24 18:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/09/24 18:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/08/24 05:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.4	U	50.4		mg/Kg		02/02/24 16:37	02/08/24 05:59	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/02/24 16:37	02/08/24 05:59	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/02/24 16:37	02/08/24 05:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*104*		*70 - 130*	*02/02/24 16:37*	*02/08/24 05:59*	*1*
1-Chlorooctane	*95*		*70 - 130*	*02/02/24 16:37*	*02/08/24 05:59*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: PH 04

Lab Sample ID: 890-6065-4
Matrix: Solid
Date Collected: 01/29/24 12:20
Date Received: 01/30/24 09:18
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		5.03		mg/Kg			02/05/24 08:02	1

Client Sample ID: SS 05

Lab Sample ID: 890-6065-5
Matrix: Solid
Date Collected: 01/29/24 15:25
Date Received: 01/30/24 09:18
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		02/06/24 13:45	02/09/24 18:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/24 13:45	02/09/24 18:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/24 13:45	02/09/24 18:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/24 13:45	02/09/24 18:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/24 13:45	02/09/24 18:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/24 13:45	02/09/24 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*02/06/24 13:45*	*02/09/24 18:30*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*02/06/24 13:45*	*02/09/24 18:30*	*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			02/09/24 18:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/08/24 06:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.2	U	50.2		mg/Kg		02/02/24 16:37	02/08/24 06:20	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/02/24 16:37	02/08/24 06:20	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/02/24 16:37	02/08/24 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*70 - 130*	*02/02/24 16:37*	*02/08/24 06:20*	*1*
1-Chlorooctane	*84*		*70 - 130*	*02/02/24 16:37*	*02/08/24 06:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257		5.05		mg/Kg			02/03/24 19:29	1

Client Sample ID: SS 06

Lab Sample ID: 890-6065-6
Matrix: Solid
Date Collected: 01/29/24 14:00
Date Received: 01/30/24 09:18
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		02/06/24 13:45	02/09/24 18:50	1

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: SS 06

Lab Sample ID: 890-6065-6
Matrix: Solid
Date Collected: 01/29/24 14:00
Date Received: 01/30/24 09:18
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 18:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 18:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/06/24 13:45	02/09/24 18:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 18:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/06/24 13:45	02/09/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*02/06/24 13:45*	*02/09/24 18:50*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/06/24 13:45*	*02/09/24 18:50*	*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			02/09/24 18:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/08/24 06:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.7	U	49.7		mg/Kg		02/02/24 16:37	02/08/24 06:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/02/24 16:37	02/08/24 06:41	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/02/24 16:37	02/08/24 06:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*70 - 130*	*02/02/24 16:37*	*02/08/24 06:41*	*1*
1-Chlorooctane	*88*		*70 - 130*	*02/02/24 16:37*	*02/08/24 06:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**271**		4.97		mg/Kg			02/03/24 19:44	1

Client Sample ID: SS 07

Lab Sample ID: 890-6065-7
Matrix: Solid
Date Collected: 01/29/24 14:10
Date Received: 01/30/24 09:18
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		02/06/24 13:45	02/09/24 19:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 19:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 19:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/24 13:45	02/09/24 19:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 19:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/06/24 13:45	02/09/24 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*02/06/24 13:45*	*02/09/24 19:11*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/06/24 13:45*	*02/09/24 19:11*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: SS 07

Lab Sample ID: 890-6065-7
Matrix: Solid
Date Collected: 01/29/24 14:10
Date Received: 01/30/24 09:18
Sample Depth: 0.5'

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/09/24 19:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**51.0**		50.0		mg/Kg			02/08/24 07:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		02/02/24 16:37	02/08/24 07:02	1
Diesel Range Organics (Over C10-C28)	**51.0**		50.0		mg/Kg		02/02/24 16:37	02/08/24 07:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/02/24 16:37	02/08/24 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*70 - 130*	*02/02/24 16:37*	*02/08/24 07:02*	*1*
1-Chlorooctane	*87*		*70 - 130*	*02/02/24 16:37*	*02/08/24 07:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**507**		4.95		mg/Kg			02/03/24 19:49	1

Client Sample ID: SS 08

Lab Sample ID: 890-6065-8
Matrix: Solid
Date Collected: 01/29/24 14:30
Date Received: 01/30/24 09:18
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		02/06/24 13:45	02/09/24 19:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/24 13:45	02/09/24 19:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/24 13:45	02/09/24 19:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/24 13:45	02/09/24 19:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/24 13:45	02/09/24 19:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/24 13:45	02/09/24 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/06/24 13:45*	*02/09/24 19:31*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*02/06/24 13:45*	*02/09/24 19:31*	*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			02/09/24 19:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.7**		50.0		mg/Kg			02/08/24 07:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		02/02/24 16:37	02/08/24 07:22	1

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: SS 08

Lab Sample ID: 890-6065-8
Matrix: Solid
Date Collected: 01/29/24 14:30
Date Received: 01/30/24 09:18
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	55.7		50.0		mg/Kg		02/02/24 16:37	02/08/24 07:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/02/24 16:37	02/08/24 07:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*100*		*70 - 130*	*02/02/24 16:37*	*02/08/24 07:22*	*1*
1-Chlorooctane	*92*		*70 - 130*	*02/02/24 16:37*	*02/08/24 07:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		5.02		mg/Kg			02/03/24 19:54	1

Client Sample ID: SS 09

Lab Sample ID: 890-6065-9
Matrix: Solid
Date Collected: 01/29/24 14:35
Date Received: 01/30/24 09:18
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		02/06/24 13:45	02/09/24 19:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/24 13:45	02/09/24 19:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/24 13:45	02/09/24 19:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/24 13:45	02/09/24 19:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/24 13:45	02/09/24 19:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/06/24 13:45	02/09/24 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*02/06/24 13:45*	*02/09/24 19:51*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*02/06/24 13:45*	*02/09/24 19:51*	*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			02/09/24 19:51	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			02/08/24 07:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U	49.9		mg/Kg		02/02/24 16:37	02/08/24 07:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/24 16:37	02/08/24 07:43	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/24 16:37	02/08/24 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*70 - 130*	*02/02/24 16:37*	*02/08/24 07:43*	*1*
1-Chlorooctane	*96*		*70 - 130*	*02/02/24 16:37*	*02/08/24 07:43*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: SS 09

Lab Sample ID: 890-6065-9
Matrix: Solid
Date Collected: 01/29/24 14:35
Date Received: 01/30/24 09:18
Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	445		5.05		mg/Kg			02/03/24 19:58	1

Client Sample ID: SS 10

Lab Sample ID: 890-6065-10
Matrix: Solid
Date Collected: 01/29/24 14:40
Date Received: 01/30/24 09:18
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		02/06/24 13:45	02/09/24 20:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/24 13:45	02/09/24 20:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/24 13:45	02/09/24 20:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/06/24 13:45	02/09/24 20:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/24 13:45	02/09/24 20:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/06/24 13:45	02/09/24 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*02/06/24 13:45*	*02/09/24 20:12*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/06/24 13:45*	*02/09/24 20:12*	*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			02/09/24 20:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/08/24 08:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.6	U	49.6		mg/Kg		02/02/24 16:37	02/08/24 08:04	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/02/24 16:37	02/08/24 08:04	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/02/24 16:37	02/08/24 08:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*70 - 130*	*02/02/24 16:37*	*02/08/24 08:04*	*1*
1-Chlorooctane	*91*		*70 - 130*	*02/02/24 16:37*	*02/08/24 08:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	413		5.00		mg/Kg			02/03/24 20:03	1

Client Sample ID: SS 11

Lab Sample ID: 890-6065-11
Matrix: Solid
Date Collected: 01/29/24 14:45
Date Received: 01/30/24 09:18
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		02/06/24 13:45	02/09/24 22:02	1

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: SS 11

Lab Sample ID: 890-6065-11
Matrix: Solid
Date Collected: 01/29/24 14:45
Date Received: 01/30/24 09:18
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 22:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 22:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/06/24 13:45	02/09/24 22:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 22:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/06/24 13:45	02/09/24 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*02/06/24 13:45*	*02/09/24 22:02*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/06/24 13:45*	*02/09/24 22:02*	*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			02/09/24 22:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/08/24 08:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.1	U	50.1		mg/Kg		02/02/24 16:37	02/08/24 08:45	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/02/24 16:37	02/08/24 08:45	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/02/24 16:37	02/08/24 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*100*		*70 - 130*	*02/02/24 16:37*	*02/08/24 08:45*	*1*
1-Chlorooctane	*92*		*70 - 130*	*02/02/24 16:37*	*02/08/24 08:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**321**		5.04		mg/Kg			02/03/24 20:08	1

Client Sample ID: SS 12

Lab Sample ID: 890-6065-12
Matrix: Solid
Date Collected: 01/29/24 15:15
Date Received: 01/30/24 09:18
Sample Depth: 0.5'

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		02/06/24 13:45	02/09/24 22:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/06/24 13:45	02/09/24 22:23	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/06/24 13:45	02/09/24 22:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/06/24 13:45	02/09/24 22:23	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/06/24 13:45	02/09/24 22:23	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/06/24 13:45	02/09/24 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*02/06/24 13:45*	*02/09/24 22:23*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*02/06/24 13:45*	*02/09/24 22:23*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: SS 12

Date Collected: 01/29/24 15:15
Date Received: 01/30/24 09:18
Sample Depth: 0.5'

Lab Sample ID: 890-6065-12

Matrix: Solid

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			02/09/24 22:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/08/24 09:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.4	U	50.4		mg/Kg		02/02/24 16:37	02/08/24 09:06	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/02/24 16:37	02/08/24 09:06	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/02/24 16:37	02/08/24 09:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*70 - 130*	*02/02/24 16:37*	*02/08/24 09:06*	*1*
1-Chlorooctane	*97*		*70 - 130*	*02/02/24 16:37*	*02/08/24 09:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**430**		5.01		mg/Kg			02/03/24 20:23	1

Surrogate Summary

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

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)
890-6065-1	PH 01	240 S1+	92
890-6065-1 MS	PH 01	108	106
890-6065-1 MSD	PH 01	104	104
890-6065-2	PH 02	98	111
890-6065-3	PH 03	96	114
890-6065-4	PH 04	111	111
890-6065-5	SS 05	106	110
890-6065-6	SS 06	111	109
890-6065-7	SS 07	110	111
890-6065-8	SS 08	102	113
890-6065-9	SS 09	110	113
890-6065-10	SS 10	108	111
890-6065-11	SS 11	85	104
890-6065-12	SS 12	88	110
LCS 880-72504/1-A	Lab Control Sample	103	108
LCSD 880-72504/2-A	Lab Control Sample Dup	95	105
MB 880-72504/5-A	Method Blank	119	127

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	OTPH1 (70-130)	1CO1 (70-130)
890-6065-1	PH 01	94	88
890-6065-1 MS	PH 01	76	79
890-6065-1 MSD	PH 01	72	75
890-6065-2	PH 02	103	92
890-6065-3	PH 03	102	95
890-6065-4	PH 04	104	95
890-6065-5	SS 05	90	84
890-6065-6	SS 06	97	88
890-6065-7	SS 07	97	87
890-6065-8	SS 08	100	92
890-6065-9	SS 09	98	96
890-6065-10	SS 10	97	91
890-6065-11	SS 11	100	92
890-6065-12	SS 12	103	97
LCS 870-17831/1-A	Lab Control Sample	102	107
LCSD 870-17831/2-A	Lab Control Sample Dup	101	107
MB 870-17831/3-A	Method Blank	106	102

Surrogate Legend

OTPH = o-Terphenyl
1CO = 1-Chlorooctane

QC Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-72504/5-A
Matrix: Solid
Analysis Batch: 72754

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72504

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 16:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 16:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 16:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/24 13:45	02/09/24 16:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/24 13:45	02/09/24 16:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/06/24 13:45	02/09/24 16:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/06/24 13:45*	*02/09/24 16:39*	*1*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*	*02/06/24 13:45*	*02/09/24 16:39*	*1*

Lab Sample ID: LCS 880-72504/1-A
Matrix: Solid
Analysis Batch: 72754

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72504

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1096		mg/Kg		110	70 - 130		
Toluene			0.100	0.09393		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.09541		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene			0.200	0.2141		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.09277		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-72504/2-A
Matrix: Solid
Analysis Batch: 72754

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 72504

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1034		mg/Kg		103	70 - 130	6	35
Toluene			0.100	0.09777		mg/Kg		98	70 - 130	4	35
Ethylbenzene			0.100	0.09367		mg/Kg		94	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1975		mg/Kg		99	70 - 130	8	35
o-Xylene			0.100	0.08515		mg/Kg		85	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-6065-1 MS
Matrix: Solid
Analysis Batch: 72754

Client Sample ID: PH 01
Prep Type: Total/NA
Prep Batch: 72504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.100	0.09946		mg/Kg		99	70 - 130		
Toluene	<0.00199	U	0.100	0.09257		mg/Kg		92	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

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

Lab Sample ID: 890-6065-1 MS
Matrix: Solid
Analysis Batch: 72754

Client Sample ID: PH 01
Prep Type: Total/NA
Prep Batch: 72504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.100	0.09174		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2088		mg/Kg		104	70 - 130
o-Xylene	<0.00199	U	0.100	0.09047		mg/Kg		90	70 - 130

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

Lab Sample ID: 890-6065-1 MSD
Matrix: Solid
Analysis Batch: 72754

Client Sample ID: PH 01
Prep Type: Total/NA
Prep Batch: 72504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.09528		mg/Kg		95	70 - 130	4	35
Toluene	<0.00199	U	0.101	0.09026		mg/Kg		90	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.101	0.08571		mg/Kg		85	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1834		mg/Kg		91	70 - 130	13	35
o-Xylene	<0.00199	U	0.101	0.08671		mg/Kg		86	70 - 130	4	35

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

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

Lab Sample ID: MB 870-17831/3-A
Matrix: Solid
Analysis Batch: 17833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17831

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0	mg/Kg		02/02/24 16:37	02/08/24 03:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/02/24 16:37	02/08/24 03:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/02/24 16:37	02/08/24 03:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*70 - 130*	*02/02/24 16:37*	*02/08/24 03:55*	*1*
1-Chlorooctane	*102*		*70 - 130*	*02/02/24 16:37*	*02/08/24 03:55*	*1*

Lab Sample ID: LCS 870-17831/1-A
Matrix: Solid
Analysis Batch: 17833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17831

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)	1020	773.6		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	1010	960.6		mg/Kg		95	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

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

Lab Sample ID: LCS 870-17831/1-A
Matrix: Solid
Analysis Batch: 17833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17831

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	102		70 - 130
1-Chlorooctane	107		70 - 130

Lab Sample ID: LCSD 870-17831/2-A
Matrix: Solid
Analysis Batch: 17833

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17831

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)			1020	776.7		mg/Kg		76	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1010	969.3		mg/Kg		96	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	101		70 - 130
1-Chlorooctane	107		70 - 130

Lab Sample ID: 890-6065-1 MS
Matrix: Solid
Analysis Batch: 17833

Client Sample ID: PH 01
Prep Type: Total/NA
Prep Batch: 17831

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)	<49.8	U F1	1020	620.6	F1	mg/Kg		61	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	735.9	F1	mg/Kg		69	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	76		70 - 130
1-Chlorooctane	79		70 - 130

Lab Sample ID: 890-6065-1 MSD
Matrix: Solid
Analysis Batch: 17833

Client Sample ID: PH 01
Prep Type: Total/NA
Prep Batch: 17831

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	<49.8	U F1	1020	650.7	F1	mg/Kg		64	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	696.1	F1	mg/Kg		65	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	72		70 - 130
1-Chlorooctane	75		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-72080/1-A
Matrix: Solid
Analysis Batch: 72176

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			02/03/24 18:45	1

Lab Sample ID: LCS 880-72080/2-A
Matrix: Solid
Analysis Batch: 72176

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.5		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-72080/3-A
Matrix: Solid
Analysis Batch: 72176

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	249.0		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 890-6065-11 MS
Matrix: Solid
Analysis Batch: 72176

Client Sample ID: SS 11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	321		252	565.2		mg/Kg		97	90 - 110		

Lab Sample ID: 890-6065-11 MSD
Matrix: Solid
Analysis Batch: 72176

Client Sample ID: SS 11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	321		252	564.3		mg/Kg		96	90 - 110	0	20

Lab Sample ID: MB 880-71975/1-A
Matrix: Solid
Analysis Batch: 72257

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			02/04/24 11:33	1

Lab Sample ID: LCS 880-71975/2-A
Matrix: Solid
Analysis Batch: 72257

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.4		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-71975/3-A
Matrix: Solid
Analysis Batch: 72257

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	252.2		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

GC VOA

Prep Batch: 72504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6065-1	PH 01	Total/NA	Solid	5035	
890-6065-2	PH 02	Total/NA	Solid	5035	
890-6065-3	PH 03	Total/NA	Solid	5035	
890-6065-4	PH 04	Total/NA	Solid	5035	
890-6065-5	SS 05	Total/NA	Solid	5035	
890-6065-6	SS 06	Total/NA	Solid	5035	
890-6065-7	SS 07	Total/NA	Solid	5035	
890-6065-8	SS 08	Total/NA	Solid	5035	
890-6065-9	SS 09	Total/NA	Solid	5035	
890-6065-10	SS 10	Total/NA	Solid	5035	
890-6065-11	SS 11	Total/NA	Solid	5035	
890-6065-12	SS 12	Total/NA	Solid	5035	
MB 880-72504/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72504/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72504/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6065-1 MS	PH 01	Total/NA	Solid	5035	
890-6065-1 MSD	PH 01	Total/NA	Solid	5035	

Analysis Batch: 72754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6065-1	PH 01	Total/NA	Solid	8021B	72504
890-6065-2	PH 02	Total/NA	Solid	8021B	72504
890-6065-3	PH 03	Total/NA	Solid	8021B	72504
890-6065-4	PH 04	Total/NA	Solid	8021B	72504
890-6065-5	SS 05	Total/NA	Solid	8021B	72504
890-6065-6	SS 06	Total/NA	Solid	8021B	72504
890-6065-7	SS 07	Total/NA	Solid	8021B	72504
890-6065-8	SS 08	Total/NA	Solid	8021B	72504
890-6065-9	SS 09	Total/NA	Solid	8021B	72504
890-6065-10	SS 10	Total/NA	Solid	8021B	72504
890-6065-11	SS 11	Total/NA	Solid	8021B	72504
890-6065-12	SS 12	Total/NA	Solid	8021B	72504
MB 880-72504/5-A	Method Blank	Total/NA	Solid	8021B	72504
LCS 880-72504/1-A	Lab Control Sample	Total/NA	Solid	8021B	72504
LCSD 880-72504/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72504
890-6065-1 MS	PH 01	Total/NA	Solid	8021B	72504
890-6065-1 MSD	PH 01	Total/NA	Solid	8021B	72504

Analysis Batch: 72851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6065-1	PH 01	Total/NA	Solid	Total BTEX	
890-6065-2	PH 02	Total/NA	Solid	Total BTEX	
890-6065-3	PH 03	Total/NA	Solid	Total BTEX	
890-6065-4	PH 04	Total/NA	Solid	Total BTEX	
890-6065-5	SS 05	Total/NA	Solid	Total BTEX	
890-6065-6	SS 06	Total/NA	Solid	Total BTEX	
890-6065-7	SS 07	Total/NA	Solid	Total BTEX	
890-6065-8	SS 08	Total/NA	Solid	Total BTEX	
890-6065-9	SS 09	Total/NA	Solid	Total BTEX	
890-6065-10	SS 10	Total/NA	Solid	Total BTEX	
890-6065-11	SS 11	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

GC VOA (Continued)

Analysis Batch: 72851 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6065-12	SS 12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 17831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6065-1	PH 01	Total/NA	Solid	8015NM Prep	
890-6065-2	PH 02	Total/NA	Solid	8015NM Prep	
890-6065-3	PH 03	Total/NA	Solid	8015NM Prep	
890-6065-4	PH 04	Total/NA	Solid	8015NM Prep	
890-6065-5	SS 05	Total/NA	Solid	8015NM Prep	
890-6065-6	SS 06	Total/NA	Solid	8015NM Prep	
890-6065-7	SS 07	Total/NA	Solid	8015NM Prep	
890-6065-8	SS 08	Total/NA	Solid	8015NM Prep	
890-6065-9	SS 09	Total/NA	Solid	8015NM Prep	
890-6065-10	SS 10	Total/NA	Solid	8015NM Prep	
890-6065-11	SS 11	Total/NA	Solid	8015NM Prep	
890-6065-12	SS 12	Total/NA	Solid	8015NM Prep	
MB 870-17831/3-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 870-17831/1-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 870-17831/2-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6065-1 MS	PH 01	Total/NA	Solid	8015NM Prep	
890-6065-1 MSD	PH 01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6065-1	PH 01	Total/NA	Solid	8015B NM	17831
890-6065-2	PH 02	Total/NA	Solid	8015B NM	17831
890-6065-3	PH 03	Total/NA	Solid	8015B NM	17831
890-6065-4	PH 04	Total/NA	Solid	8015B NM	17831
890-6065-5	SS 05	Total/NA	Solid	8015B NM	17831
890-6065-6	SS 06	Total/NA	Solid	8015B NM	17831
890-6065-7	SS 07	Total/NA	Solid	8015B NM	17831
890-6065-8	SS 08	Total/NA	Solid	8015B NM	17831
890-6065-9	SS 09	Total/NA	Solid	8015B NM	17831
890-6065-10	SS 10	Total/NA	Solid	8015B NM	17831
890-6065-11	SS 11	Total/NA	Solid	8015B NM	17831
890-6065-12	SS 12	Total/NA	Solid	8015B NM	17831
MB 870-17831/3-A	Method Blank	Total/NA	Solid	8015B NM	17831
LCS 870-17831/1-A	Lab Control Sample	Total/NA	Solid	8015B NM	17831
LCSD 870-17831/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17831
890-6065-1 MS	PH 01	Total/NA	Solid	8015B NM	17831
890-6065-1 MSD	PH 01	Total/NA	Solid	8015B NM	17831

Analysis Batch: 17891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6065-1	PH 01	Total/NA	Solid	8015 NM	
890-6065-2	PH 02	Total/NA	Solid	8015 NM	
890-6065-3	PH 03	Total/NA	Solid	8015 NM	
890-6065-4	PH 04	Total/NA	Solid	8015 NM	
890-6065-5	SS 05	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

GC Semi VOA (Continued)

Analysis Batch: 17891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6065-6	SS 06	Total/NA	Solid	8015 NM	
890-6065-7	SS 07	Total/NA	Solid	8015 NM	
890-6065-8	SS 08	Total/NA	Solid	8015 NM	
890-6065-9	SS 09	Total/NA	Solid	8015 NM	
890-6065-10	SS 10	Total/NA	Solid	8015 NM	
890-6065-11	SS 11	Total/NA	Solid	8015 NM	
890-6065-12	SS 12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6065-1	PH 01	Soluble	Solid	DI Leach	
890-6065-2	PH 02	Soluble	Solid	DI Leach	
890-6065-3	PH 03	Soluble	Solid	DI Leach	
890-6065-4	PH 04	Soluble	Solid	DI Leach	
MB 880-71975/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71975/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71975/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 72080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6065-5	SS 05	Soluble	Solid	DI Leach	
890-6065-6	SS 06	Soluble	Solid	DI Leach	
890-6065-7	SS 07	Soluble	Solid	DI Leach	
890-6065-8	SS 08	Soluble	Solid	DI Leach	
890-6065-9	SS 09	Soluble	Solid	DI Leach	
890-6065-10	SS 10	Soluble	Solid	DI Leach	
890-6065-11	SS 11	Soluble	Solid	DI Leach	
890-6065-12	SS 12	Soluble	Solid	DI Leach	
MB 880-72080/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72080/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72080/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6065-11 MS	SS 11	Soluble	Solid	DI Leach	
890-6065-11 MSD	SS 11	Soluble	Solid	DI Leach	

Analysis Batch: 72176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6065-5	SS 05	Soluble	Solid	300.0	72080
890-6065-6	SS 06	Soluble	Solid	300.0	72080
890-6065-7	SS 07	Soluble	Solid	300.0	72080
890-6065-8	SS 08	Soluble	Solid	300.0	72080
890-6065-9	SS 09	Soluble	Solid	300.0	72080
890-6065-10	SS 10	Soluble	Solid	300.0	72080
890-6065-11	SS 11	Soluble	Solid	300.0	72080
890-6065-12	SS 12	Soluble	Solid	300.0	72080
MB 880-72080/1-A	Method Blank	Soluble	Solid	300.0	72080
LCS 880-72080/2-A	Lab Control Sample	Soluble	Solid	300.0	72080
LCSD 880-72080/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72080
890-6065-11 MS	SS 11	Soluble	Solid	300.0	72080
890-6065-11 MSD	SS 11	Soluble	Solid	300.0	72080

QC Association Summary

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

HPLC/IC

Analysis Batch: 72257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6065-1	PH 01	Soluble	Solid	300.0	71975
890-6065-2	PH 02	Soluble	Solid	300.0	71975
890-6065-3	PH 03	Soluble	Solid	300.0	71975
890-6065-4	PH 04	Soluble	Solid	300.0	71975
MB 880-71975/1-A	Method Blank	Soluble	Solid	300.0	71975
LCS 880-71975/2-A	Lab Control Sample	Soluble	Solid	300.0	71975
LCSD 880-71975/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71975

Lab Chronicle

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: PH 01

Date Collected: 01/29/24 09:45
Date Received: 01/30/24 09:18

Lab Sample ID: 890-6065-1
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			5.02 g	5 mL	72504	02/06/24 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/09/24 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72851	02/09/24 17:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			17891	02/08/24 04:16	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	17831	02/02/24 16:37	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17833	02/08/24 04:16	WP	EET DAL
Soluble	Leach	DI Leach			5.04 g	50 mL	71975	01/30/24 16:02	SMC	EET MID
Soluble	Analysis	300.0		1			72257	02/04/24 14:36	CH	EET MID

Client Sample ID: PH 02

Date Collected: 01/29/24 10:25
Date Received: 01/30/24 09:18

Lab Sample ID: 890-6065-2
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			5.05 g	5 mL	72504	02/06/24 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/09/24 17:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72851	02/09/24 17:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			17891	02/08/24 05:18	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	17831	02/02/24 16:37	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17833	02/08/24 05:18	WP	EET DAL
Soluble	Leach	DI Leach			4.96 g	50 mL	71975	01/30/24 16:02	SMC	EET MID
Soluble	Analysis	300.0		1			72257	02/04/24 14:42	CH	EET MID

Client Sample ID: PH 03

Date Collected: 01/29/24 15:00
Date Received: 01/30/24 09:18

Lab Sample ID: 890-6065-3
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			4.98 g	5 mL	72504	02/06/24 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/09/24 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72851	02/09/24 17:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			17891	02/08/24 05:39	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	17831	02/02/24 16:37	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17833	02/08/24 05:39	WP	EET DAL
Soluble	Leach	DI Leach			5.01 g	50 mL	71975	01/30/24 16:02	SMC	EET MID
Soluble	Analysis	300.0		1			72257	02/05/24 07:55	CH	EET MID

Client Sample ID: PH 04

Date Collected: 01/29/24 12:20
Date Received: 01/30/24 09:18

Lab Sample ID: 890-6065-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	72504	02/06/24 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/09/24 18:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72851	02/09/24 18:09	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: PH 04

Lab Sample ID: 890-6065-4

Date Collected: 01/29/24 12:20
Matrix: Solid
Date Received: 01/30/24 09:18

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			17891	02/08/24 05:59	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	17831	02/02/24 16:37	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17833	02/08/24 05:59	WP	EET DAL
Soluble	Leach	DI Leach			4.97 g	50 mL	71975	01/30/24 16:02	SMC	EET MID
Soluble	Analysis	300.0		1			72257	02/05/24 08:02	CH	EET MID

Client Sample ID: SS 05

Lab Sample ID: 890-6065-5

Date Collected: 01/29/24 15:25
Matrix: Solid
Date Received: 01/30/24 09:18

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	72504	02/06/24 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/09/24 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72851	02/09/24 18:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			17891	02/08/24 06:20	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	17831	02/02/24 16:37	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17833	02/08/24 06:20	WP	EET DAL
Soluble	Leach	DI Leach			4.95 g	50 mL	72080	01/31/24 17:55	SMC	EET MID
Soluble	Analysis	300.0		1			72176	02/03/24 19:29	CH	EET MID

Client Sample ID: SS 06

Lab Sample ID: 890-6065-6

Date Collected: 01/29/24 14:00
Matrix: Solid
Date Received: 01/30/24 09:18

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	72504	02/06/24 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/09/24 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72851	02/09/24 18:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			17891	02/08/24 06:41	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	17831	02/02/24 16:37	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17833	02/08/24 06:41	WP	EET DAL
Soluble	Leach	DI Leach			5.03 g	50 mL	72080	01/31/24 17:55	SMC	EET MID
Soluble	Analysis	300.0		1			72176	02/03/24 19:44	CH	EET MID

Client Sample ID: SS 07

Lab Sample ID: 890-6065-7

Date Collected: 01/29/24 14:10
Matrix: Solid
Date Received: 01/30/24 09:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	72504	02/06/24 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/09/24 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72851	02/09/24 19:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			17891	02/08/24 07:02	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17831	02/02/24 16:37	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17833	02/08/24 07:02	WP	EET DAL

Lab Chronicle

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: SS 07

Date Collected: 01/29/24 14:10
Date Received: 01/30/24 09:18

Lab Sample ID: 890-6065-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	72080	01/31/24 17:55	SMC	EET MID
Soluble	Analysis	300.0		1			72176	02/03/24 19:49	CH	EET MID

Client Sample ID: SS 08

Date Collected: 01/29/24 14:30
Date Received: 01/30/24 09:18

Lab Sample ID: 890-6065-8
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	72504	02/06/24 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/09/24 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72851	02/09/24 19:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			17891	02/08/24 07:22	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17831	02/02/24 16:37	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17833	02/08/24 07:22	WP	EET DAL
Soluble	Leach	DI Leach			4.98 g	50 mL	72080	01/31/24 17:55	SMC	EET MID
Soluble	Analysis	300.0		1			72176	02/03/24 19:54	CH	EET MID

Client Sample ID: SS 09

Date Collected: 01/29/24 14:35
Date Received: 01/30/24 09:18

Lab Sample ID: 890-6065-9
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			4.97 g	5 mL	72504	02/06/24 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/09/24 19:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72851	02/09/24 19:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			17891	02/08/24 07:43	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17831	02/02/24 16:37	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17833	02/08/24 07:43	WP	EET DAL
Soluble	Leach	DI Leach			4.95 g	50 mL	72080	01/31/24 17:55	SMC	EET MID
Soluble	Analysis	300.0		1			72176	02/03/24 19:58	CH	EET MID

Client Sample ID: SS 10

Date Collected: 01/29/24 14:40
Date Received: 01/30/24 09:18

Lab Sample ID: 890-6065-10
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	72504	02/06/24 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/09/24 20:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72851	02/09/24 20:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			17891	02/08/24 08:04	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	17831	02/02/24 16:37	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17833	02/08/24 08:04	WP	EET DAL
Soluble	Leach	DI Leach			5.00 g	50 mL	72080	01/31/24 17:55	SMC	EET MID
Soluble	Analysis	300.0		1			72176	02/03/24 20:03	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Client Sample ID: SS 11

Date Collected: 01/29/24 14:45
Date Received: 01/30/24 09:18

Lab Sample ID: 890-6065-11

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			4.99 g	5 mL	72504	02/06/24 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/09/24 22:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72851	02/09/24 22:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			17891	02/08/24 08:45	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	17831	02/02/24 16:37	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17833	02/08/24 08:45	WP	EET DAL
Soluble	Leach	DI Leach			4.96 g	50 mL	72080	01/31/24 17:55	SMC	EET MID
Soluble	Analysis	300.0		1			72176	02/03/24 20:08	CH	EET MID

Client Sample ID: SS 12

Date Collected: 01/29/24 15:15
Date Received: 01/30/24 09:18

Lab Sample ID: 890-6065-12

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			5.05 g	5 mL	72504	02/06/24 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/09/24 22:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72851	02/09/24 22:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			17891	02/08/24 09:06	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	17831	02/02/24 16:37	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17833	02/08/24 09:06	WP	EET DAL
Soluble	Leach	DI Leach			4.99 g	50 mL	72080	01/31/24 17:55	SMC	EET MID
Soluble	Analysis	300.0		1			72176	02/03/24 20:23	CH	EET MID

Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Laboratory: Eurofins Dallas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704295-23-34	06-30-24

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	T104704400-23-26	06-30-24

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
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

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 DAL
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET DAL
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET DAL
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 DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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

Sample Summary

Client: Ensolum
Project/Site: Corral Canyon 16-4 ST Fed Com 126H

Job ID: 890-6065-1
SDG: 03C1558302

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6065-1	PH 01	Solid	01/29/24 09:45	01/30/24 09:18	2'
890-6065-2	PH 02	Solid	01/29/24 10:25	01/30/24 09:18	2'
890-6065-3	PH 03	Solid	01/29/24 15:00	01/30/24 09:18	2'
890-6065-4	PH 04	Solid	01/29/24 12:20	01/30/24 09:18	2'
890-6065-5	SS 05	Solid	01/29/24 15:25	01/30/24 09:18	0.5'
890-6065-6	SS 06	Solid	01/29/24 14:00	01/30/24 09:18	0.5'
890-6065-7	SS 07	Solid	01/29/24 14:10	01/30/24 09:18	0.5'
890-6065-8	SS 08	Solid	01/29/24 14:30	01/30/24 09:18	0.5'
890-6065-9	SS 09	Solid	01/29/24 14:35	01/30/24 09:18	0.5'
890-6065-10	SS 10	Solid	01/29/24 14:40	01/30/24 09:18	0.5'
890-6065-11	SS 11	Solid	01/29/24 14:45	01/30/24 09:18	0.5'
890-6065-12	SS 12	Solid	01/29/24 15:15	01/30/24 09:18	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: 6065

www.xenco.com Page 1 of 2

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greene St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(989) 854-0852 Email:	Email:	Garrett.Green@ExxonMobil.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:	Corral Canyon 14-4ST Fed COM 126H	Turn Around	☒ Routine ☐ Rush
Project Number:	03C1558302	Due Date:	5 days
Project Location:	32.12005, -103.98646	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Mariana O'Dell		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR007
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	Chlorides	TPH	BTEX
PH01	S	1/29/24	9:45	2'	G	1	X	X	X
PH02	S		10:25	2'					
PH03	S		15:00	2'					
PH04	S		12:20	2'					
SS05	S		15:25	0.5'					
SS06	S		14:00	0.5'					
SS07	S		14:10	0.5'					
SS08	S		14:30	0.5'					
SS09	S		14:35	0.5'					
SS10	S		14:40	0.5'					

Parameters

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 #:
nAPP2335250734
Cost center:
1810101001
Ben Belill:
bbelill@ensolum.com
API: 30-015-53192

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		9:18 1/30	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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: _____

www.xenco.com Page 2 of 2

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greene St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(989) 854-0852	Email:	Garrett.Green@ExxonMobil.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:	Corral Canyon 16-4 ST Fed Com 126H	Turn Around	
Project Number:	03C1558302	☒ Routine ☐ Rush	
Project Location:	32.12605, -103.986446	Due Date:	5 days
Sampler's Name:	Mariana O'Dell	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:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	TPH	BTEX
SS11	S	1/29/24	14:45	0.5'	G	1		X	X	X
SS12	S	"	15:15	0.5'	G	1		X	X	X

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 #:
nAPP2335073 4
Cost Center:
1870101001
Ben Belill:
bbelill@ensolum.com
API: 30-015-53192

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		9:18 1/30	3		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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: 6064

www.xenco.com Page _____ of _____

Project Manager:	Bryan Moon	Bill to: (if different)	Bryan Moon CO2_ST_Invoices@kindermorgan.com
Company Name:	Kinder Morgan	Company Name:	Kinder Morgan Bryan_Moon@kindermorgan.com
Address:	1001 Louisiana Street	Address:	1001 Louisiana Street
City, State ZIP:	Houston, TX 77002	City, State ZIP:	Houston, TX 77002
Phone:	817-675-6107	Email:	jason_romero@kindermorgan.com; jake_forsman@kindermorgan.com
Project Name:	2024 Wink Washout MP 117.2	Turn Around	☐ Routine ☑ Rush
Project Number:	AFE	Due Date:	
Project Location:	West of Orla, TX	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:			
PO #:			

Work Order Comments

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

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes No
Samples Received Intact:	(Yes) No	Thermometer ID:	TAM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	6.0
Total Containers:		Corrected Temperature:	5.8

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_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	TCLP RCRA 8	Total Mercury	PCBS	Asbestos	Sample Comments
Wink Washout 2024_MP 117.2_Media_2024	Solid	1-13	36		Grab	2	X	X			
Wink Washout 2024_MP 117.2_Coating_2024	Solid	1-12	10 am		Grab	2			X	X	

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Brun 8 11/30 835		2		
			4		
			6		

Revised Date: 08/25/2020 Rev. 2020.2

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 880-9114.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-6065-1
Address: 9701 Harry Hines Blvd, ,	Due Date Requested: 2/5/2024			
City: Dallas	TAT Requested (days):			
State, Zip: TX, 75220				
Phone: 214-902-0300(Tel)	PO #:			
Email:	WO #:			
Project Name: Corral Canyon 16-4 ST Fed Com 126H	Project #: 89000093			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep	Total Number of containers	Special Instructions/Note:
		Preservation Code:								
PH 01 (890-6065-1)	1/29/24	09:45 Mountain		Solid			X	X	1	
PH 02 (890-6065-2)	1/29/24	10:25 Mountain		Solid			X	X	1	
PH 03 (890-6065-3)	1/29/24	15:00 Mountain		Solid			X	X	1	
PH 04 (890-6065-4)	1/29/24	12:20 Mountain		Solid			X	X	1	
SS 05 (890-6065-5)	1/29/24	15:25 Mountain		Solid			X	X	1	
SS 06 (890-6065-6)	1/29/24	14:00 Mountain		Solid			X	X	1	
SS 07 (890-6065-7)	1/29/24	14:10 Mountain		Solid			X	X	1	
SS 08 (890-6065-8)	1/29/24	14:30 Mountain		Solid			X	X	1	
SS 09 (890-6065-9)	1/29/24	14:35 Mountain		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: AJ Fulks	Date/Time:	Company	Received by: Fulks	Date/Time:	Company
Relinquished by: Fulks	Date/Time: 2/6/24 957	Company	Received by: MS	Date/Time: 2/6/24 957	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6 THM001 -.4

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 880-9114.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-6065-1
Address: 9701 Harry Hines Blvd, ,	Due Date Requested: 2/5/2024			
City: Dallas	TAT Requested (days):			
State, Zip: TX, 75220				
Phone: 214-902-0300(Tel)	PO #:			
Email:	WO #:			
Project Name: Corral Canyon 16-4 ST Fed Com 126H	Project #: 89000093			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SS 10 (890-6065-10)	1/29/24	14:40 Mountain		Solid			X	X	1	
SS 11 (890-6065-11)	1/29/24	14:45 Mountain		Solid			X	X	1	
SS 12 (890-6065-12)	1/29/24	15:15 Mountain		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
AJ Fed Ex			MB Fed Ex		
Relinquished by:	Date/Time: 2/6/24 957	Company	Received by: MB	Date/Time: 2/6/24 957	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: THM001 1 1.6 THM002

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6065-1
SDG Number: 03C1558302

Login Number: 6065
List Number: 1
Creator: Bruns, Shannon

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: 890-6065-1
SDG Number: 03C1558302

Login Number: 6065
List Number: 3
Creator: Sharp, Michael

List Source: Eurofins Dallas
List Creation: 02/06/24 10:34 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6065-1
SDG Number: 03C1558302

Login Number: 6065
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/31/24 12:23 PM

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	

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

QUESTIONS

Action 330563

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 330563
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2335250734**
Incident Name	**NAPP2335250734 CORRAL CANYON 16-4 ST FED COM 126H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Corral Canyon 16-4 ST Fed Com 126H
Date Release Discovered	12/08/2023
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Other | Other (Specify) | Produced Water | Released: 15 BBL | Recovered: 12 BBL | Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A 2" chiksan connection in the flowback iron washed out, releasing fluids to pad.

District I
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 330563
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: Melanie Collins Title: Regulatory Analyst Email: Melanie.Collins@exxonmobil.com Date: 12/18/2023

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 330563
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	20700
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1510
GRO+DRO (EPA SW-846 Method 8015M)	1390
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	07/04/2024
On what date will (or did) the final sampling or liner inspection occur	07/18/2024
On what date will (or was) the remediation complete(d)	07/18/2024
What is the estimated surface area (in square feet) that will be reclaimed	7828
What is the estimated volume (in cubic yards) that will be reclaimed	450
What is the estimated surface area (in square feet) that will be remediated	7828
What is the estimated volume (in cubic yards) that will be remediated	450
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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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
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 330563
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 04/05/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 330563
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 330563
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**308014**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/30/2024**
What was the (estimated) number of samples that were to be gathered	**35**
What was the sampling surface area in square feet	**7000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 330563

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 330563
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. Variance approved to use USGS groundwater data within.5 miles of site that is >25 years old. The site is at 3003 feet elevation and taking this into consideration the dtgw would still be >100 feet. Submit report to OCD by 7/15/2024.	4/15/2024