ENSOLUM

August 30, 2022

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

Re: Closure Request
Montera Federal 10M CTB
Incident Number NAPP2135442784
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the Montera Federal 10M CTB (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a crude oil flare fire at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, COG is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2135442784.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 10, Township 25 South, Range 35 East, in Lea County, New Mexico (32.1390991° N, 103.3629782° W) and is associated with oil and gas exploration and production operations on private land owned by Tap Rock NM 10 Minerals, LLC.

On December 6, 2021, an incorrectly bypassed valve resulted in the release of approximately 0.25 barrels (bbls) of crude oil through the flare stack, which resulted in a small fire on the well pad. The fire extinguished itself on the ground and there were no fluids to recover. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on December 7, 2021 and submitted a Release Notification Form C-141 (Form C-141) on December 20, 2021. The release was assigned Incident Number NAPP2135442784.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 50 and 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 320841103205601, located

approximately 0.9 miles northeast of the Site and next to Antelope Draw. The groundwater well has a reported depth to groundwater of 76 feet bgs and a total depth of 84 feet bgs. Ground surface elevation at the groundwater well location is 3,174 feet above mean sea level (amsl), which is approximately 55 feet lower in elevation than the Site. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine, located approximately 1,172 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, 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 (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On Janurary 4, 2022, site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four preliminary soil samples (SS01 through SS04) were collected within the release extent at a depth of 0.5 feet bgs, to assess the lateral extent of the release. The preliminary 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 and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil sample SS04 indicated the TPH-GRO/TPH-DRO concentration exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS01 through SS03 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for preliminary soil sample SS04, delineation and excavation activities appeared to be warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Between May 23, 2022 and August 10, 2022, Ensolum personnel were at the Site to oversee delineation and excavation activities. Three potholes (PH01/PH01A through PH03/PH03A) were advanced via backhoe at in the vicinity of preliminary soil sample locations SS01 through SS03, respectively, to assess the vertical extent of soil characteristics. The potholes were advanced to a depth of 2 feet bgs. Delineation soil samples were collected from each pothole at depths of 1-foot and 2 feet bgs. Soil from the potholes was field screened for VOCs and chloride. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix B. Additionally, lateral delineation soil samples SS05 through SS08 were collected from around the release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the release. The pothole and delineation soil sample locations are depicted on Figure 3.

Upon completion of delineation activities, soil was excavated from the release area as indicated by visible staining in the vicinity of preliminary soil samples SS01 and SS03 and laboratory analytical results for preliminary soil sample SS04. Excavation activities were performed using a track-mounted backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a maximum depth of 1-foot bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the impacted and stained soil, 5-point composite soil samples were collected every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the sample by thoroughly mixing. Composite soil samples FS01 through FS03 were collected from the floor of the excavation at depths ranging from 0.75 feet to 1-foot bgs. Due to the shallow depth of the excavation, the floor sample was also representative of the excavation sidewalls. The soil sample was collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation area measured approximately 500 square feet. A total of approximately 20 cubic yards of soil was removed during the excavation activities. The soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from potholes PH01/PH01A through PH03/PH03A and lateral delineation soil samples SS05 through SS08 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Additionally, laboratory analytical results for lateral delineation soil samples SS05 through SS08 were compliant with the most stringent Table 1 Closure Criteria and successfully defined the lateral extent of the release.

Laboratory analytical results for excavation floor samples FS01 through FS03, collected from the final excavation extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the December 6, 2021, crude oil flare fire release. Laboratory analytical results for delineation soil samples and excavation soil

samples, collected from the final excavation extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. COG will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be between 50 feet and 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2135442784. The Form C-141 is attached as Appendix F.

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

Sincerely,
Ensolum, LLC

Hadlie Green
Staff Geologist

Kalei Jennings
Senior Scientist

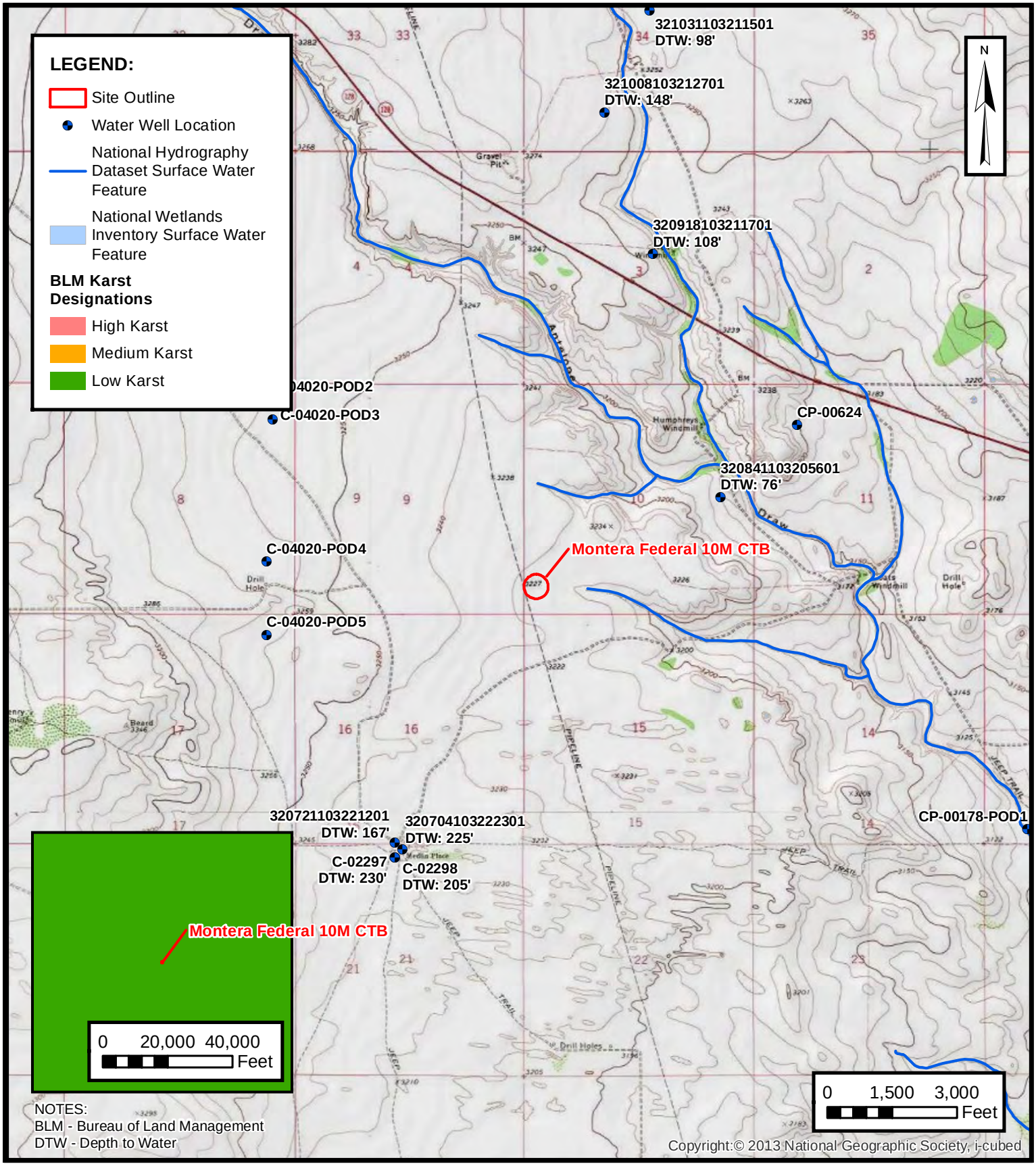
cc: Charles Beauvais, COG Operating, LLC
Tap Rock NM 10 Minerals, LLC

Appendices:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Delineation Soil Sample Locations
Figure 4	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Sample Notification
Appendix F	Final C-141

ENSOLUM

FIGURES

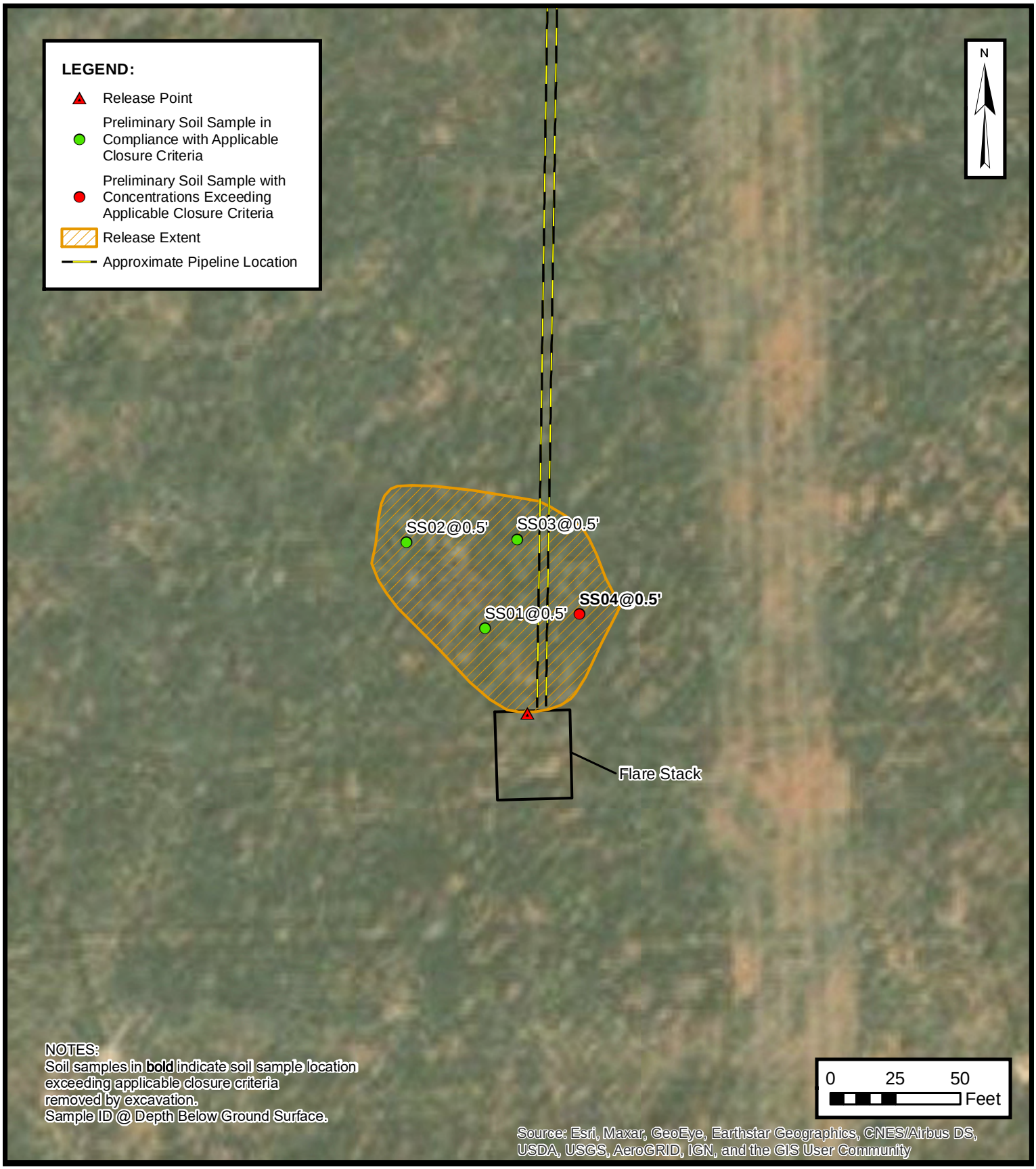


ENSOLUM
Environmental & Hydrogeologic Consultants

SITE LOCATION MAP

COG OPERATING, LLC
MONTERA FEDERAL 10M CTB
NAPP2135442784
Unit M, Sec 10, T25S, R25E
Lea County, New Mexico

FIGURE
1

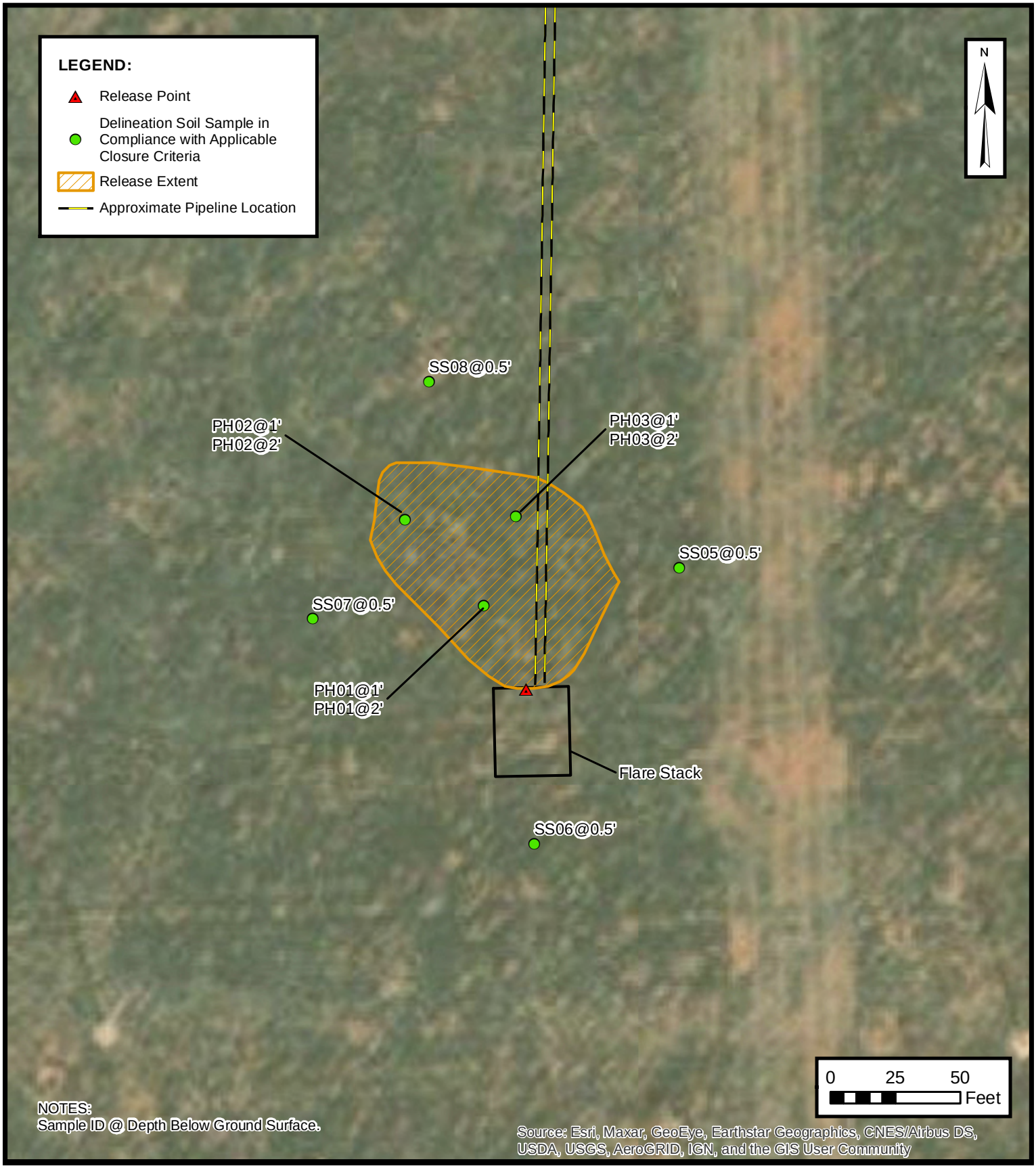


ENSOLUM
Environmental & Hydrogeologic Consultants

PRELIMINARY SOIL SAMPLE LOCATIONS

COG OPERATING, LLC
MONTERA FEDERAL 10M CTB
NAPP2135442784
Unit M, Sec 10, T25S, R25E
Lea County, New Mexico

FIGURE
2

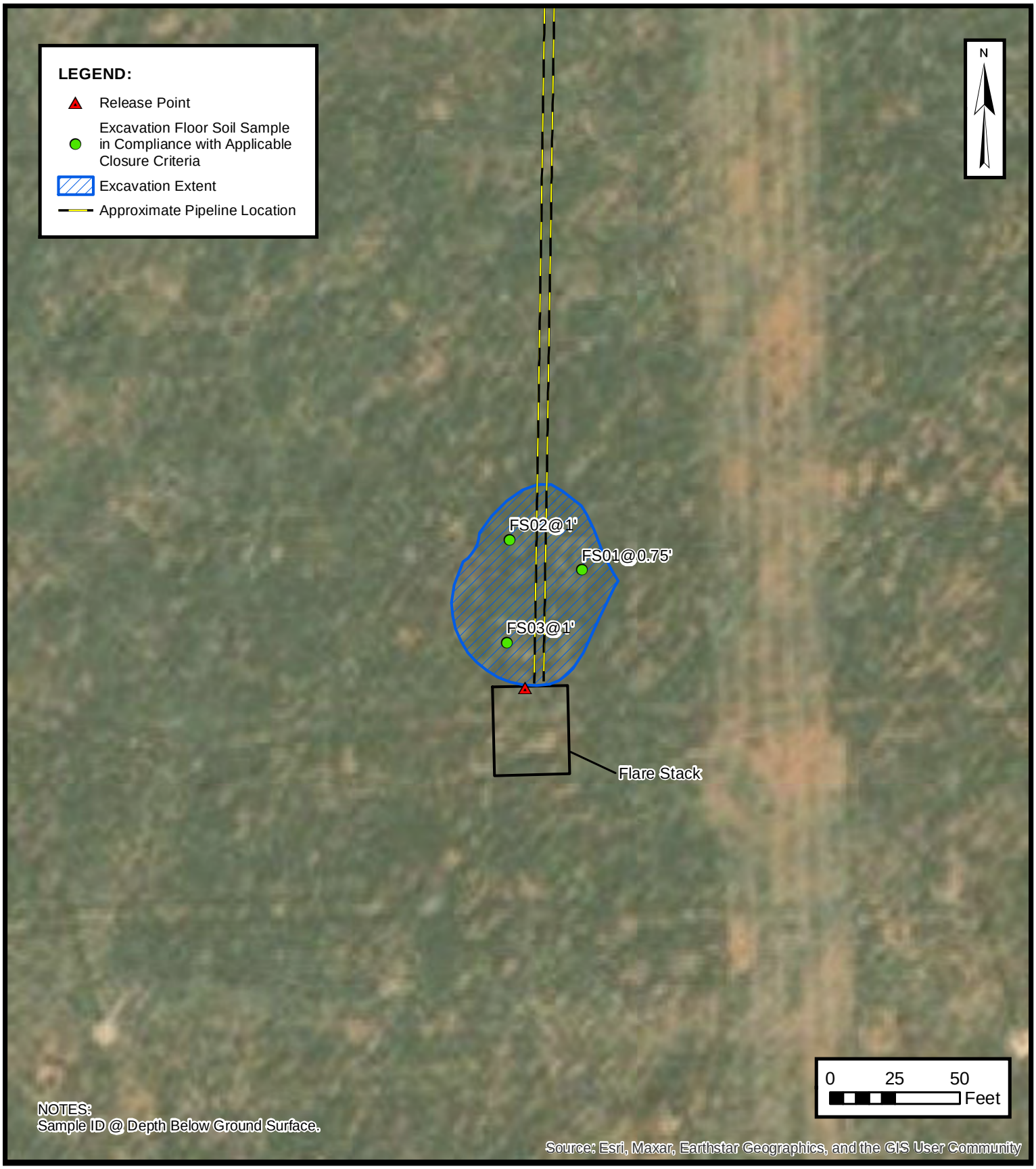


ENSOLUM
Environmental & Hydrogeologic Consultants

DELINEATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC
MONTERA FEDERAL 10M CTB
NAPP2135442784
Unit M, Sec 10, T25S, R25E
Lea County, New Mexico

FIGURE
3



ENSOLUM
Environmental & Hydrogeologic Consultants

EXCAVATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC
MONTERA FEDERAL 10M CTB
NAPP2135442784
Unit M, Sec 10, T25S, R25E
Lea County, New Mexico

FIGURE
4

ENSOLUM

TABLES

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Montera Federal 10M CTB
COG Operating, LLC
Lea 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 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Preliminary Assessment Soil Samples										
SS01	01/04/2022	0.5	<0.00200	<0.00400	<50.0	647	<50.0	647	647	30.9
SS02	01/04/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	13.7
SS03	01/04/2022	0.5	<0.00200	<0.00400	<50.0	340	<50.0	340	340	13.9
SS04	01/04/2022	0.5	<0.00198	0.464	<50.0	1,400	<50.0	**1,400**	1,400	62.9
SS05	05/23/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	31.9
SS06	05/23/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	29.6
SS07	05/23/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	80.4
SS08	05/23/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	18.2
Delineation Soil Samples										
PH01	05/23/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	32.6
PH01A	05/23/2022	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	38.1
PH02	05/23/2022	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	23.7
PH02A	05/23/2022	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	23.8
PH03	05/23/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	29.8
PH03A	05/23/2022	2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	36.8
Excavation Floor Soil Samples										
FS01	05/23/2022	0.75	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	143
FS02	08/10/2022	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	13.8
FS03	08/10/2022	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	9.43

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 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
Gray text represents samples that have been excavated

ENSOLUM

APPENDIX A

Referenced Well Records

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	C 02298	2	2	1	21	25S	35E	653484	3555216

Driller License: 122 **Driller Company:** UNKNOWN

Driller Name: UNKNOWN

Drill Start Date: **Drill Finish Date:** 12/31/1949 **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 4 GPM

Casing Size: 8.00 **Depth Well:** 250 feet **Depth Water:** 205 feet

USGS 320841103205601 25S.25E.10.223132

Lea County, New Mexico
Latitude 32°08'41", Longitude 103°20'56" NAD27
Land-surface elevation 3,174 feet above NAVD88
The depth of the well is 84 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

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
1953-04-02		D	62610		3095.55	NGVD29
1953-04-02		D	62611		3097.02	NAVD88
1953-04-02		D	72019	76.98		
1965-10-21		D	62610		3094.66	NGVD29
1965-10-21		D	62611		3096.13	NAVD88
1965-10-21		D	72019	77.87		
1968-06-12		D	62610		3098.14	NGVD29
1968-06-12		D	62611		3099.61	NAVD88
1968-06-12		D	72019	74.39		
1970-12-09		D	62610		3098.64	NGVD29
1970-12-09		D	62611		3100.11	NAVD88
1970-12-09		D	72019	73.89		
1976-01-09		D	62610		3097.48	NGVD29
1976-01-09		D	62611		3098.95	NAVD88
1976-01-09		D	72019	75.05		
1981-03-27		D	62610		3096.10	NGVD29
1981-03-27		D	62611		3097.57	NAVD88
1981-03-27		D	72019	76.43		
1986-03-18		D	62610		3096.84	NGVD29
1986-03-18		D	62611		3098.31	NAVD88
1986-03-18		D	72019	75.69		
1991-06-12		D	62610		3096.48	NGVD29
1991-06-12		D	62611		3097.95	NAVD88
[illegible]		D	72019	76.05		.

ENSOLUM

APPENDIX B

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: **PH01**	Date: **05/23/2022**
	Site Name: **Montera Federal 10M CTB**	
	Incident Number: **NAPP2135442784**	
	Job Number: 03D2024014	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand Auger
Coordinates:	Hole Diameter:	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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	<168	0.0	N	PH01	1	1	CCHE	CALICHE, red-brown, poorly sorted, poorly graded, subangular to angular clasts, fine grain, no stain, no odor.
D	<168	0.0	N	PH01A	2	2	CCHE	SAA

TD @ 2 feet bgs

ENSOLUM

	Sample Name: **PH02**	Date: **05/23/2022**
	Site Name: **Montera Federal 10M CTB**	
	Incident Number: **NAPP2135442784**	
	Job Number: 03D2024014	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand Auger
Coordinates:	Hole Diameter:	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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	<168	0.0	N	PH02	1	1	CCHE	CALICHE, red-brown, poorly sorted, poorly graded, subangular to angular clasts, fine grain, no stain, no odor.
D	<168	0.0	N	PH02A	2	2	CCHE	SAA

TD @ 2 feet bgs

ENSOLUM

	Sample Name: **PH03**	Date: **05/23/2022**
	Site Name: **Montera Federal 10M CTB**	
	Incident Number: **NAPP2135442784**	
	Job Number: 03D2024014	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand Auger
Coordinates:	Hole Diameter:	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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	<168	0.3	N	PH03	1	1	CCHE	CALICHE, red-brown, poorly sorted, poorly graded, subangular to angular clasts, fine grain, no stain, no odor.
D	<168	0.1	N	PH03A	2	2	CCHE	SAA

TD @ 2 feet bgs

ENSOLUM

APPENDIX C

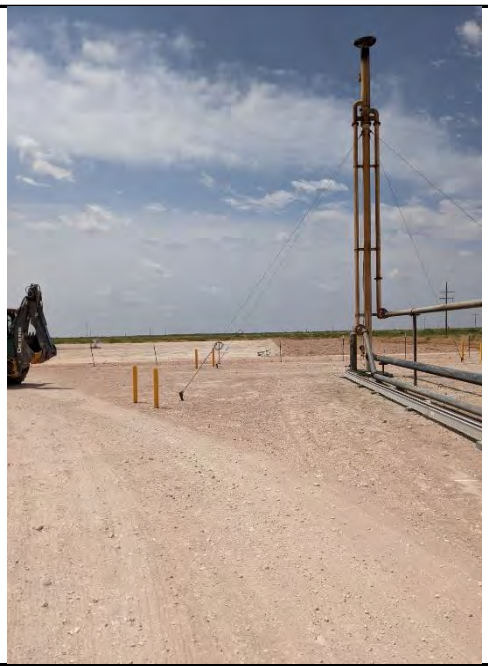
Photographic Log

ENSOLUM

Photographic Log
COG Operating, LLC
Montera Federal 10M CTB
Incident Number NAPP2135442784

Photograph 1
Date: January 4, 2022
Description: Photo taken during initial site assessment.

Photograph 2
Date: May 23, 2022
Description: Location of PH03 taken during delineation.



Photograph 3
Date: May 23, 2022
Description: Location of excavation extent at SS04.

Photograph 4
Date: August 10, 2022
Description: Location of excavation extent at SS01 and SS03.

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2330-1
Laboratory Sample Delivery Group: 03D2024014
Client Project/Site: Montera Federal 10M CTB

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

JKramer

Authorized for release by:
5/31/2022 10:07:57 AM

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

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

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

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Laboratory Job ID: 890-2330-1
SDG: 03D2024014

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Job ID: 890-2330-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2330-1

Receipt
The samples were received on 5/23/2022 1:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-26189 and analytical batch 880-26191 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Client Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: FS01

Date Collected: 05/23/22 09:25
Date Received: 05/23/22 13:32
Sample Depth: 0.75

Lab Sample ID: 890-2330-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 12:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 12:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 12:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/24/22 14:35	05/25/22 12:54	1
o-Xylene	**0.00237**		0.00200		mg/Kg		05/24/22 14:35	05/25/22 12:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/24/22 14:35	05/25/22 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*05/24/22 14:35*	*05/25/22 12:54*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/24/22 14:35*	*05/25/22 12:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/25/22 09:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/25/22 09:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 21:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 21:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*05/24/22 16:02*	*05/24/22 21:00*	*1*
o-Terphenyl	*120*		*70 - 130*	*05/24/22 16:02*	*05/24/22 21:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**143**		4.98		mg/Kg			05/28/22 16:38	1

Client Sample ID: PH01

Date Collected: 05/23/22 09:50
Date Received: 05/23/22 13:32
Sample Depth: 1

Lab Sample ID: 890-2330-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/24/22 14:35	05/25/22 13:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/24/22 14:35	05/25/22 13:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/24/22 14:35	05/25/22 13:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/24/22 14:35	05/25/22 13:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/24/22 14:35	05/25/22 13:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/24/22 14:35	05/25/22 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*05/24/22 14:35*	*05/25/22 13:14*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: PH01

Date Collected: 05/23/22 09:50
Date Received: 05/23/22 13:32
Sample Depth: 1

Lab Sample ID: 890-2330-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/24/22 14:35*	*05/25/22 13:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/25/22 09:40	1

Method: 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			05/25/22 09:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/24/22 22:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/24/22 22:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/24/22 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*05/24/22 16:02*	*05/24/22 22:03*	*1*
o-Terphenyl	*116*		*70 - 130*	*05/24/22 16:02*	*05/24/22 22:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.6**		5.04		mg/Kg			05/28/22 16:46	1

Client Sample ID: PH01

Date Collected: 05/23/22 09:55
Date Received: 05/23/22 13:32
Sample Depth: 2

Lab Sample ID: 890-2330-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 13:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 13:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 13:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/24/22 14:35	05/25/22 13:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 13:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/24/22 14:35	05/25/22 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/24/22 14:35*	*05/25/22 13:35*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/24/22 14:35*	*05/25/22 13:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/25/22 09:40	1

Method: 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			05/25/22 09:17	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: PH01

Lab Sample ID: 890-2330-3
Matrix: Solid
Date Collected: 05/23/22 09:55
Date Received: 05/23/22 13:32
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/24/22 22:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/24/22 22:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/24/22 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*05/24/22 16:02*	*05/24/22 22:24*	*1*
o-Terphenyl	*115*		*70 - 130*	*05/24/22 16:02*	*05/24/22 22:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.1**		4.99		mg/Kg			05/28/22 16:54	1

Client Sample ID: PH02

Lab Sample ID: 890-2330-4
Matrix: Solid
Date Collected: 05/23/22 10:05
Date Received: 05/23/22 13:32
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 13:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 13:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 13:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/24/22 14:35	05/25/22 13:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 13:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/24/22 14:35	05/25/22 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/24/22 14:35*	*05/25/22 13:55*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/24/22 14:35*	*05/25/22 13:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/25/22 09:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/25/22 09:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 22:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 22:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*05/24/22 16:02*	*05/24/22 22:45*	*1*
o-Terphenyl	*113*		*70 - 130*	*05/24/22 16:02*	*05/24/22 22:45*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: PH02

Lab Sample ID: 890-2330-4
Matrix: Solid
Date Collected: 05/23/22 10:05
Date Received: 05/23/22 13:32
Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.7		4.98		mg/Kg			05/28/22 17:02	1

Client Sample ID: PH02

Lab Sample ID: 890-2330-5
Matrix: Solid
Date Collected: 05/23/22 10:10
Date Received: 05/23/22 13:32
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 14:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 14:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 14:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/24/22 14:35	05/25/22 14:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 14:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/24/22 14:35	05/25/22 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*05/24/22 14:35*	*05/25/22 14:16*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/24/22 14:35*	*05/25/22 14:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/25/22 09:40	1

Method: 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			05/25/22 09:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/24/22 23:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/24/22 23:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/24/22 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*05/24/22 16:02*	*05/24/22 23:06*	*1*
o-Terphenyl	*114*		*70 - 130*	*05/24/22 16:02*	*05/24/22 23:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		5.00		mg/Kg			05/28/22 17:09	1

Client Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: PH03

Lab Sample ID: 890-2330-6
Matrix: Solid
Date Collected: 05/23/22 10:20
Date Received: 05/23/22 13:32
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/24/22 14:35	05/25/22 14:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/24/22 14:35	05/25/22 14:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/24/22 14:35	05/25/22 14:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/24/22 14:35	05/25/22 14:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/24/22 14:35	05/25/22 14:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/24/22 14:35	05/25/22 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/24/22 14:35*	*05/25/22 14:36*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/24/22 14:35*	*05/25/22 14:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/25/22 09:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/25/22 09:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 23:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 23:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*05/24/22 16:02*	*05/24/22 23:27*	*1*
o-Terphenyl	*114*		*70 - 130*	*05/24/22 16:02*	*05/24/22 23:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.8**		4.95		mg/Kg			05/28/22 17:33	1

Client Sample ID: PH03

Lab Sample ID: 890-2330-7
Matrix: Solid
Date Collected: 05/23/22 10:25
Date Received: 05/23/22 13:32
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/24/22 14:35	05/25/22 14:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/24/22 14:35	05/25/22 14:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/24/22 14:35	05/25/22 14:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/24/22 14:35	05/25/22 14:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/24/22 14:35	05/25/22 14:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/24/22 14:35	05/25/22 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/24/22 14:35*	*05/25/22 14:57*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: PH03

Lab Sample ID: 890-2330-7
Matrix: Solid
Date Collected: 05/23/22 10:25
Date Received: 05/23/22 13:32
Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/24/22 14:35*	*05/25/22 14:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/25/22 09:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/25/22 09:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 23:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 23:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*118*		*70 - 130*	*05/24/22 16:02*	*05/24/22 23:48*	*1*
o-Terphenyl	*112*		*70 - 130*	*05/24/22 16:02*	*05/24/22 23:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.8**		4.99		mg/Kg			05/28/22 17:41	1

Client Sample ID: SS05

Lab Sample ID: 890-2330-8
Matrix: Solid
Date Collected: 05/23/22 10:30
Date Received: 05/23/22 13:32
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/24/22 14:35	05/25/22 15:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/24/22 14:35	05/25/22 15:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/24/22 14:35	05/25/22 15:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/24/22 14:35	05/25/22 15:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/24/22 14:35	05/25/22 15:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/24/22 14:35	05/25/22 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*05/24/22 14:35*	*05/25/22 15:18*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/24/22 14:35*	*05/25/22 15:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/25/22 09:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/25/22 09:17	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: SS05

Lab Sample ID: 890-2330-8
Matrix: Solid
Date Collected: 05/23/22 10:30
Date Received: 05/23/22 13:32
Sample Depth: 0.5

Method: 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		05/24/22 16:02	05/25/22 00:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/25/22 00:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/25/22 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*05/24/22 16:02*	*05/25/22 00:08*	*1*
o-Terphenyl	*111*		*70 - 130*	*05/24/22 16:02*	*05/25/22 00:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.9**		5.04		mg/Kg			05/28/22 18:05	1

Client Sample ID: SS06

Lab Sample ID: 890-2330-9
Matrix: Solid
Date Collected: 05/23/22 10:35
Date Received: 05/23/22 13:32
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/24/22 14:35	05/25/22 19:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/24/22 14:35	05/25/22 19:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/24/22 14:35	05/25/22 19:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/24/22 14:35	05/25/22 19:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/24/22 14:35	05/25/22 19:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/24/22 14:35	05/25/22 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*05/24/22 14:35*	*05/25/22 19:25*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/24/22 14:35*	*05/25/22 19:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/25/22 09:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/25/22 09:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/25/22 00:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/25/22 00:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/25/22 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*05/24/22 16:02*	*05/25/22 00:29*	*1*
o-Terphenyl	*114*		*70 - 130*	*05/24/22 16:02*	*05/25/22 00:29*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: SS06

Lab Sample ID: 890-2330-9
Matrix: Solid
Date Collected: 05/23/22 10:35
Date Received: 05/23/22 13:32
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.6		4.98		mg/Kg			05/28/22 18:13	1

Client Sample ID: SS07

Lab Sample ID: 890-2330-10
Matrix: Solid
Date Collected: 05/23/22 10:40
Date Received: 05/23/22 13:32
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/24/22 14:35	05/25/22 19:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/24/22 14:35	05/25/22 19:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/24/22 14:35	05/25/22 19:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/24/22 14:35	05/25/22 19:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/24/22 14:35	05/25/22 19:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/24/22 14:35	05/25/22 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*05/24/22 14:35*	*05/25/22 19:45*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/24/22 14:35*	*05/25/22 19:45*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/25/22 09:40	1

Method: 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			05/25/22 09:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/25/22 00:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/25/22 00:50	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/25/22 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*05/24/22 16:02*	*05/25/22 00:50*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/24/22 16:02*	*05/25/22 00:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.4		4.95		mg/Kg			05/28/22 18:21	1

Client Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: SS08

Date Collected: 05/23/22 10:45
Date Received: 05/23/22 13:32
Sample Depth: 0.5

Lab Sample ID: 890-2330-11

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:26	05/25/22 01:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:26	05/25/22 01:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:26	05/25/22 01:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/24/22 14:26	05/25/22 01:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:26	05/25/22 01:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/24/22 14:26	05/25/22 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*05/24/22 14:26*	*05/25/22 01:42*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*05/24/22 14:26*	*05/25/22 01:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/25/22 09:40	1

Method: 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			05/25/22 09:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/25/22 01:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/25/22 01:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/24/22 16:02	05/25/22 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*05/24/22 16:02*	*05/25/22 01:32*	*1*
o-Terphenyl	*110*		*70 - 130*	*05/24/22 16:02*	*05/25/22 01:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.2**		4.95		mg/Kg			05/28/22 18:28	1

Surrogate Summary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

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)
880-15112-A-1-A MS	Matrix Spike	96	87
880-15112-A-1-B MSD	Matrix Spike Duplicate	99	93
890-2330-1	FS01	122	98
890-2330-1 MS	FS01	116	94
890-2330-1 MSD	FS01	118	95
890-2330-2	PH01	113	98
890-2330-3	PH01	111	97
890-2330-4	PH02	112	98
890-2330-5	PH02	117	96
890-2330-6	PH03	111	94
890-2330-7	PH03	115	95
890-2330-8	SS05	118	94
890-2330-9	SS06	113	95
890-2330-10	SS07	117	96
890-2330-11	SS08	117	88
LCS 880-26189/1-A	Lab Control Sample	101	102
LCS 880-26190/1-A	Lab Control Sample	116	94
LCSD 880-26189/2-A	Lab Control Sample Dup	99	101
LCSD 880-26190/2-A	Lab Control Sample Dup	120	95
MB 880-26189/5-A	Method Blank	102	103
MB 880-26190/5-A	Method Blank	109	88

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)
890-2330-1	FS01	126	120
890-2330-1 MS	FS01	119	102
890-2330-1 MSD	FS01	119	102
890-2330-2	PH01	122	116
890-2330-3	PH01	121	115
890-2330-4	PH02	119	113
890-2330-5	PH02	120	114
890-2330-6	PH03	120	114
890-2330-7	PH03	118	112
890-2330-8	SS05	118	111
890-2330-9	SS06	120	114
890-2330-10	SS07	115	107
890-2330-11	SS08	116	110
LCS 880-26197/2-A	Lab Control Sample	117	106
LCSD 880-26197/3-A	Lab Control Sample Dup	122	110
MB 880-26197/1-A	Method Blank	126	124

Surrogate Legend

1CO = 1-Chlorooctane

Surrogate Summary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26189/5-A
Matrix: Solid
Analysis Batch: 26191

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26189

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:26	05/24/22 17:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:26	05/24/22 17:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:26	05/24/22 17:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/24/22 14:26	05/24/22 17:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:26	05/24/22 17:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/24/22 14:26	05/24/22 17:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*05/24/22 14:26*	*05/24/22 17:46*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*05/24/22 14:26*	*05/24/22 17:46*	*1*

Lab Sample ID: LCS 880-26189/1-A
Matrix: Solid
Analysis Batch: 26191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26189

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09248		mg/Kg		92	70 - 130		
Toluene			0.100	0.09550		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.08540		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene			0.200	0.1780		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.09043		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-26189/2-A
Matrix: Solid
Analysis Batch: 26191

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26189

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08799		mg/Kg		88	70 - 130	5	35
Toluene			0.100	0.08955		mg/Kg		90	70 - 130	6	35
Ethylbenzene			0.100	0.08059		mg/Kg		81	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1648		mg/Kg		82	70 - 130	8	35
o-Xylene			0.100	0.08433		mg/Kg		84	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-15112-A-1-A MS
Matrix: Solid
Analysis Batch: 26191

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 26189

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1	0.0996	0.06244	F1	mg/Kg		63	70 - 130		
Toluene	<0.00199	U	0.0996	0.07721		mg/Kg		78	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

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

Lab Sample ID: 880-15112-A-1-A MS
Matrix: Solid
Analysis Batch: 26191

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 26189

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.0996	0.06921	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1382	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00199	U	0.0996	0.07044		mg/Kg		71	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 880-15112-A-1-B MSD
Matrix: Solid
Analysis Batch: 26191

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 26189

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.06829	F1	mg/Kg		68	70 - 130	9	35
Toluene	<0.00199	U	0.101	0.07764		mg/Kg		77	70 - 130	1	35
Ethylbenzene	<0.00199	U F1	0.101	0.07055		mg/Kg		70	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1425		mg/Kg		71	70 - 130	3	35
o-Xylene	<0.00199	U	0.101	0.07277		mg/Kg		72	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 880-26190/5-A
Matrix: Solid
Analysis Batch: 26211

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26190

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 12:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/24/22 14:35	05/25/22 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/24/22 14:35	05/25/22 12:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/24/22 14:35	05/25/22 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/24/22 14:35*	*05/25/22 12:32*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*05/24/22 14:35*	*05/25/22 12:32*	*1*

Lab Sample ID: LCS 880-26190/1-A
Matrix: Solid
Analysis Batch: 26211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26190

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.08604		mg/Kg		86	70 - 130
Toluene			0.100	0.1005		mg/Kg		101	70 - 130
Ethylbenzene			0.100	0.1073		mg/Kg		107	70 - 130
m-Xylene & p-Xylene			0.200	0.2224		mg/Kg		111	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

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

Lab Sample ID: LCS 880-26190/1-A
Matrix: Solid
Analysis Batch: 26211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26190

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1269		mg/Kg		127	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-26190/2-A
Matrix: Solid
Analysis Batch: 26211

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26190

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08871		mg/Kg		89	70 - 130	3	35
Toluene			0.100	0.1070		mg/Kg		107	70 - 130	6	35
Ethylbenzene			0.100	0.1163		mg/Kg		116	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2420		mg/Kg		121	70 - 130	8	35
o-Xylene			0.100	0.1239		mg/Kg		124	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-2330-1 MS
Matrix: Solid
Analysis Batch: 26211

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 26190

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0996	0.07813		mg/Kg		78	70 - 130		
Toluene	<0.00200	U	0.0996	0.09370		mg/Kg		94	70 - 130		
Ethylbenzene	<0.00200	U	0.0996	0.09710		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2031		mg/Kg		101	70 - 130		
o-Xylene	0.00237		0.0996	0.1043		mg/Kg		102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-2330-1 MSD
Matrix: Solid
Analysis Batch: 26211

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 26190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08347		mg/Kg		83	70 - 130	7	35
Toluene	<0.00200	U	0.100	0.09853		mg/Kg		98	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.1015		mg/Kg		101	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2075		mg/Kg		103	70 - 130	2	35
o-Xylene	0.00237		0.100	0.1068		mg/Kg		104	70 - 130	2	35

QC Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

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

Lab Sample ID: 890-2330-1 MSD
Matrix: Solid
Analysis Batch: 26211

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 26190

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

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

Lab Sample ID: MB 880-26197/1-A
Matrix: Solid
Analysis Batch: 26134

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26197

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		05/24/22 16:02	05/24/22 19:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 19:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/22 16:02	05/24/22 19:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	05/24/22 16:02	05/24/22 19:57	1
o-Terphenyl	124		70 - 130	05/24/22 16:02	05/24/22 19:57	1

Lab Sample ID: LCS 880-26197/2-A
Matrix: Solid
Analysis Batch: 26134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26197

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	875.1		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	814.5		mg/Kg		81	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-26197/3-A
Matrix: Solid
Analysis Batch: 26134

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26197

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	965.6		mg/Kg		97	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	910.2		mg/Kg		91	70 - 130	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	110		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

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

Lab Sample ID: 890-2330-1 MS
Matrix: Solid
Analysis Batch: 26134

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 26197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1124		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1178		mg/Kg		116	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: 890-2330-1 MSD
Matrix: Solid
Analysis Batch: 26134

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 26197

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	<50.0	U	999	1158		mg/Kg		113	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1188		mg/Kg		117	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26272/1-A
Matrix: Solid
Analysis Batch: 26378

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			05/28/22 14:55	1

Lab Sample ID: LCS 880-26272/2-A
Matrix: Solid
Analysis Batch: 26378

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	266.5		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-26272/3-A
Matrix: Solid
Analysis Batch: 26378

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	266.5		mg/Kg		107	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2330-5 MS
Matrix: Solid
Analysis Batch: 26378

Client Sample ID: PH02
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	23.8		250	294.5		mg/Kg		108	90 - 110		

Lab Sample ID: 890-2330-5 MSD
Matrix: Solid
Analysis Batch: 26378

Client Sample ID: PH02
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	23.8		250	294.0		mg/Kg		108	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

GC VOA

Prep Batch: 26189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2330-11	SS08	Total/NA	Solid	5035	
MB 880-26189/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26189/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26189/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15112-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-15112-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 26190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2330-1	FS01	Total/NA	Solid	5035	
890-2330-2	PH01	Total/NA	Solid	5035	
890-2330-3	PH01	Total/NA	Solid	5035	
890-2330-4	PH02	Total/NA	Solid	5035	
890-2330-5	PH02	Total/NA	Solid	5035	
890-2330-6	PH03	Total/NA	Solid	5035	
890-2330-7	PH03	Total/NA	Solid	5035	
890-2330-8	SS05	Total/NA	Solid	5035	
890-2330-9	SS06	Total/NA	Solid	5035	
890-2330-10	SS07	Total/NA	Solid	5035	
MB 880-26190/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26190/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26190/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2330-1 MS	FS01	Total/NA	Solid	5035	
890-2330-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 26191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2330-11	SS08	Total/NA	Solid	8021B	26189
MB 880-26189/5-A	Method Blank	Total/NA	Solid	8021B	26189
LCS 880-26189/1-A	Lab Control Sample	Total/NA	Solid	8021B	26189
LCSD 880-26189/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26189
880-15112-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	26189
880-15112-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26189

Analysis Batch: 26211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2330-1	FS01	Total/NA	Solid	8021B	26190
890-2330-2	PH01	Total/NA	Solid	8021B	26190
890-2330-3	PH01	Total/NA	Solid	8021B	26190
890-2330-4	PH02	Total/NA	Solid	8021B	26190
890-2330-5	PH02	Total/NA	Solid	8021B	26190
890-2330-6	PH03	Total/NA	Solid	8021B	26190
890-2330-7	PH03	Total/NA	Solid	8021B	26190
890-2330-8	SS05	Total/NA	Solid	8021B	26190
890-2330-9	SS06	Total/NA	Solid	8021B	26190
890-2330-10	SS07	Total/NA	Solid	8021B	26190
MB 880-26190/5-A	Method Blank	Total/NA	Solid	8021B	26190
LCS 880-26190/1-A	Lab Control Sample	Total/NA	Solid	8021B	26190
LCSD 880-26190/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26190
890-2330-1 MS	FS01	Total/NA	Solid	8021B	26190
890-2330-1 MSD	FS01	Total/NA	Solid	8021B	26190

QC Association Summary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

GC VOA

Analysis Batch: 26244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2330-1	FS01	Total/NA	Solid	Total BTEX	
890-2330-2	PH01	Total/NA	Solid	Total BTEX	
890-2330-3	PH01	Total/NA	Solid	Total BTEX	
890-2330-4	PH02	Total/NA	Solid	Total BTEX	
890-2330-5	PH02	Total/NA	Solid	Total BTEX	
890-2330-6	PH03	Total/NA	Solid	Total BTEX	
890-2330-7	PH03	Total/NA	Solid	Total BTEX	
890-2330-8	SS05	Total/NA	Solid	Total BTEX	
890-2330-9	SS06	Total/NA	Solid	Total BTEX	
890-2330-10	SS07	Total/NA	Solid	Total BTEX	
890-2330-11	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 26134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2330-1	FS01	Total/NA	Solid	8015B NM	26197
890-2330-2	PH01	Total/NA	Solid	8015B NM	26197
890-2330-3	PH01	Total/NA	Solid	8015B NM	26197
890-2330-4	PH02	Total/NA	Solid	8015B NM	26197
890-2330-5	PH02	Total/NA	Solid	8015B NM	26197
890-2330-6	PH03	Total/NA	Solid	8015B NM	26197
890-2330-7	PH03	Total/NA	Solid	8015B NM	26197
890-2330-8	SS05	Total/NA	Solid	8015B NM	26197
890-2330-9	SS06	Total/NA	Solid	8015B NM	26197
890-2330-10	SS07	Total/NA	Solid	8015B NM	26197
890-2330-11	SS08	Total/NA	Solid	8015B NM	26197
MB 880-26197/1-A	Method Blank	Total/NA	Solid	8015B NM	26197
LCS 880-26197/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26197
LCSD 880-26197/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26197
890-2330-1 MS	FS01	Total/NA	Solid	8015B NM	26197
890-2330-1 MSD	FS01	Total/NA	Solid	8015B NM	26197

Prep Batch: 26197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2330-1	FS01	Total/NA	Solid	8015NM Prep	
890-2330-2	PH01	Total/NA	Solid	8015NM Prep	
890-2330-3	PH01	Total/NA	Solid	8015NM Prep	
890-2330-4	PH02	Total/NA	Solid	8015NM Prep	
890-2330-5	PH02	Total/NA	Solid	8015NM Prep	
890-2330-6	PH03	Total/NA	Solid	8015NM Prep	
890-2330-7	PH03	Total/NA	Solid	8015NM Prep	
890-2330-8	SS05	Total/NA	Solid	8015NM Prep	
890-2330-9	SS06	Total/NA	Solid	8015NM Prep	
890-2330-10	SS07	Total/NA	Solid	8015NM Prep	
890-2330-11	SS08	Total/NA	Solid	8015NM Prep	
MB 880-26197/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26197/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26197/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2330-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-2330-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

GC Semi VOA

Analysis Batch: 26232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2330-1	FS01	Total/NA	Solid	8015 NM	
890-2330-2	PH01	Total/NA	Solid	8015 NM	
890-2330-3	PH01	Total/NA	Solid	8015 NM	
890-2330-4	PH02	Total/NA	Solid	8015 NM	
890-2330-5	PH02	Total/NA	Solid	8015 NM	
890-2330-6	PH03	Total/NA	Solid	8015 NM	
890-2330-7	PH03	Total/NA	Solid	8015 NM	
890-2330-8	SS05	Total/NA	Solid	8015 NM	
890-2330-9	SS06	Total/NA	Solid	8015 NM	
890-2330-10	SS07	Total/NA	Solid	8015 NM	
890-2330-11	SS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 26272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2330-1	FS01	Soluble	Solid	DI Leach	
890-2330-2	PH01	Soluble	Solid	DI Leach	
890-2330-3	PH01	Soluble	Solid	DI Leach	
890-2330-4	PH02	Soluble	Solid	DI Leach	
890-2330-5	PH02	Soluble	Solid	DI Leach	
890-2330-6	PH03	Soluble	Solid	DI Leach	
890-2330-7	PH03	Soluble	Solid	DI Leach	
890-2330-8	SS05	Soluble	Solid	DI Leach	
890-2330-9	SS06	Soluble	Solid	DI Leach	
890-2330-10	SS07	Soluble	Solid	DI Leach	
890-2330-11	SS08	Soluble	Solid	DI Leach	
MB 880-26272/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26272/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26272/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2330-5 MS	PH02	Soluble	Solid	DI Leach	
890-2330-5 MSD	PH02	Soluble	Solid	DI Leach	

Analysis Batch: 26378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2330-1	FS01	Soluble	Solid	300.0	26272
890-2330-2	PH01	Soluble	Solid	300.0	26272
890-2330-3	PH01	Soluble	Solid	300.0	26272
890-2330-4	PH02	Soluble	Solid	300.0	26272
890-2330-5	PH02	Soluble	Solid	300.0	26272
890-2330-6	PH03	Soluble	Solid	300.0	26272
890-2330-7	PH03	Soluble	Solid	300.0	26272
890-2330-8	SS05	Soluble	Solid	300.0	26272
890-2330-9	SS06	Soluble	Solid	300.0	26272
890-2330-10	SS07	Soluble	Solid	300.0	26272
890-2330-11	SS08	Soluble	Solid	300.0	26272
MB 880-26272/1-A	Method Blank	Soluble	Solid	300.0	26272
LCS 880-26272/2-A	Lab Control Sample	Soluble	Solid	300.0	26272
LCSD 880-26272/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26272
890-2330-5 MS	PH02	Soluble	Solid	300.0	26272
890-2330-5 MSD	PH02	Soluble	Solid	300.0	26272

Lab Chronicle

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: FS01
Date Collected: 05/23/22 09:25
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-1
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			5.01 g	5 mL	26190	05/24/22 14:35	MR	XEN MID
Total/NA	Analysis	8021B		1			26211	05/25/22 12:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26244	05/25/22 09:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26232	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26197	05/24/22 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/24/22 21:00	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26272	05/25/22 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			26378	05/28/22 16:38	SC	XEN MID

Client Sample ID: PH01
Date Collected: 05/23/22 09:50
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-2
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			5.03 g	5 mL	26190	05/24/22 14:35	MR	XEN MID
Total/NA	Analysis	8021B		1			26211	05/25/22 13:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26244	05/25/22 09:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26232	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26197	05/24/22 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/24/22 22:03	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	26272	05/25/22 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			26378	05/28/22 16:46	SC	XEN MID

Client Sample ID: PH01
Date Collected: 05/23/22 09:55
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-3
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			5.01 g	5 mL	26190	05/24/22 14:35	MR	XEN MID
Total/NA	Analysis	8021B		1			26211	05/25/22 13:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26244	05/25/22 09:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26232	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26197	05/24/22 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/24/22 22:24	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26272	05/25/22 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			26378	05/28/22 16:54	SC	XEN MID

Client Sample ID: PH02
Date Collected: 05/23/22 10:05
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-4
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			5.00 g	5 mL	26190	05/24/22 14:35	MR	XEN MID
Total/NA	Analysis	8021B		1			26211	05/25/22 13:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26244	05/25/22 09:40	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: PH02
Date Collected: 05/23/22 10:05
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-4
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			26232	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26197	05/24/22 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/24/22 22:45	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26272	05/25/22 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			26378	05/28/22 17:02	SC	XEN MID

Client Sample ID: PH02
Date Collected: 05/23/22 10:10
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	26190	05/24/22 14:35	MR	XEN MID
Total/NA	Analysis	8021B		1			26211	05/25/22 14:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26244	05/25/22 09:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26232	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26197	05/24/22 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/24/22 23:06	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26272	05/25/22 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			26378	05/28/22 17:09	SC	XEN MID

Client Sample ID: PH03
Date Collected: 05/23/22 10:20
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-6
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	26190	05/24/22 14:35	MR	XEN MID
Total/NA	Analysis	8021B		1			26211	05/25/22 14:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26244	05/25/22 09:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26232	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26197	05/24/22 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/24/22 23:27	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26272	05/25/22 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			26378	05/28/22 17:33	SC	XEN MID

Client Sample ID: PH03
Date Collected: 05/23/22 10:25
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-7
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	26190	05/24/22 14:35	MR	XEN MID
Total/NA	Analysis	8021B		1	0 mL	1.0 mL	26211	05/25/22 14:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26244	05/25/22 09:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26232	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26197	05/24/22 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/24/22 23:48	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: PH03

Date Collected: 05/23/22 10:25
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-7
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			5.01 g	50 mL	26272	05/25/22 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			26378	05/28/22 17:41	SC	XEN MID

Client Sample ID: SS05

Date Collected: 05/23/22 10:30
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-8
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	26190	05/24/22 14:35	MR	XEN MID
Total/NA	Analysis	8021B		1			26211	05/25/22 15:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26244	05/25/22 09:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26232	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26197	05/24/22 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/25/22 00:08	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	26272	05/25/22 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			26378	05/28/22 18:05	SC	XEN MID

Client Sample ID: SS06

Date Collected: 05/23/22 10:35
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-9
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			5.02 g	5 mL	26190	05/24/22 14:35	MR	XEN MID
Total/NA	Analysis	8021B		1			26211	05/25/22 19:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26244	05/25/22 09:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26232	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26197	05/24/22 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/25/22 00:29	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26272	05/25/22 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			26378	05/28/22 18:13	SC	XEN MID

Client Sample ID: SS07

Date Collected: 05/23/22 10:40
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-10
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			4.98 g	5 mL	26190	05/24/22 14:35	MR	XEN MID
Total/NA	Analysis	8021B		1			26211	05/25/22 19:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26244	05/25/22 09:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26232	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26197	05/24/22 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/25/22 00:50	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26272	05/25/22 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			26378	05/28/22 18:21	SC	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Client Sample ID: SS08

Date Collected: 05/23/22 10:45
Date Received: 05/23/22 13:32

Lab Sample ID: 890-2330-11

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	26189	05/24/22 14:26	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26191	05/25/22 01:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26244	05/25/22 09:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26232	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26197	05/24/22 16:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/25/22 01:32	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26272	05/25/22 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			26378	05/28/22 18:28	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

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	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2330-1
SDG: 03D2024014

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2330-1	FS01	Solid	05/23/22 09:25	05/23/22 13:32	0.75
890-2330-2	PH01	Solid	05/23/22 09:50	05/23/22 13:32	1
890-2330-3	PH01	Solid	05/23/22 09:55	05/23/22 13:32	2
890-2330-4	PH02	Solid	05/23/22 10:05	05/23/22 13:32	1
890-2330-5	PH02	Solid	05/23/22 10:10	05/23/22 13:32	2
890-2330-6	PH03	Solid	05/23/22 10:20	05/23/22 13:32	1
890-2330-7	PH03	Solid	05/23/22 10:25	05/23/22 13:32	2
890-2330-8	SS05	Solid	05/23/22 10:30	05/23/22 13:32	0.5
890-2330-9	SS06	Solid	05/23/22 10:35	05/23/22 13:32	0.5
890-2330-10	SS07	Solid	05/23/22 10:40	05/23/22 13:32	0.5
890-2330-11	SS08	Solid	05/23/22 10:45	05/23/22 13:32	0.5

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: _____

www.xenco.com Page 1 of 2

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennigns
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	817-683-2503	Email:	kjennings@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:

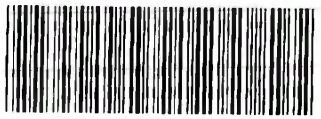
Project Name:	Montera Federal 10M CTB	**Turn Around**	
Project Number:	03D2024014	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Conner Shore	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR-MM-005
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.8
Total Containers:		Corrected Temperature:	1.6

ANALYSIS REQUEST

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	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
FS01	s	05.23.22	925	0.75'	C	1		x	x	x	
PH01	s	05.23.22	950	1'	G	1		x	x	x	
PH01	s	05.23.22	955	2'	G	1		x	x	x	
PH02	s	05.23.22	1005	1'	G	1		x	x	x	
PH02	s	05.23.22	1010	2'	G	1		x	x	x	
PH03	s	05.23.22	1020	1'	G	1		x	x	x	
PH03	s	05.23.22	1025	2'	G	1		x	x	x	
SS05	s	05.23.22	1030	0.5'		1		x	x	x	
SS06	s	05.23.22	1035	0.5'		1		x	x	x	
SS07	s	05.23.22	1040	0.5'		1		x	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

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		5.23.22 1332			
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

Chain of Custody

eurofins | Environment Testing Xenco

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:	Kalei Jennings	Bill to: (if different)	Kalei Jennigns
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	817-683-2503	Email:	kjennings@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:	Montera Federal 10M CTB	Turn Around	☑ Routine ☐ Rush
Project Number:	03D2024014	Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Conner Shore		
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:	-0.1
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	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021
SS08	s	05.23.22	1045	0.5'		1		x	x	x

ANALYSIS REQUEST / Parameters

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 Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5.23.22 1830	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2330-1
SDG Number: 03D2024014

Login Number: 2330
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2330-1
SDG Number: 03D2024014

Login Number: 2330
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 05/24/22 02:09 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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2737-1
Laboratory Sample Delivery Group: 03D2024014
Client Project/Site: Montera Federal 10M CTB
Revision: 1

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

JKramer

Authorized for release by:
8/23/2022 3:25:29 PM

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

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

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

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Laboratory Job ID: 890-2737-1
SDG: 03D2024014

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

Job ID: 890-2737-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2737-1

REVISION

The report being provided is a revision of the original report sent on 8/22/2022. The report (revision 1) is being revised due to Per client email, corrected sample IDs.

Report revision history

Receipt
The samples were received on 8/10/2022 2:06 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-32003 and analytical batch 880-31940 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
Method 8015MOD_NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (890-2732-A-1-B MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31853 and analytical batch 880-31943 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

Client Sample ID: FS02

Date Collected: 08/10/22 09:35
Date Received: 08/10/22 14:06
Sample Depth: 1

Lab Sample ID: 890-2737-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/11/22 11:30	08/12/22 00:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/11/22 11:30	08/12/22 00:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/11/22 11:30	08/12/22 00:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/11/22 11:30	08/12/22 00:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/11/22 11:30	08/12/22 00:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/11/22 11:30	08/12/22 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*08/11/22 11:30*	*08/12/22 00:56*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*08/11/22 11:30*	*08/12/22 00:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/12/22 10:35	1

Method: 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			08/12/22 09:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/11/22 15:10	08/11/22 18:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/11/22 15:10	08/12/22 18:38	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/11/22 15:10	08/12/22 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/11/22 15:10*	*08/12/22 18:38*	*1*
o-Terphenyl	*103*		*70 - 130*	*08/11/22 15:10*	*08/12/22 18:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.8**		5.01		mg/Kg			08/12/22 01:28	1

Client Sample ID: FS03

Date Collected: 08/10/22 09:40
Date Received: 08/10/22 14:06
Sample Depth: 1

Lab Sample ID: 890-2737-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/11/22 11:30	08/12/22 01:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/11/22 11:30	08/12/22 01:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/11/22 11:30	08/12/22 01:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/11/22 11:30	08/12/22 01:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/11/22 11:30	08/12/22 01:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/11/22 11:30	08/12/22 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/11/22 11:30*	*08/12/22 01:17*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

Client Sample ID: FS03

Date Collected: 08/10/22 09:40
Date Received: 08/10/22 14:06
Sample Depth: 1

Lab Sample ID: 890-2737-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*08/11/22 11:30*	*08/12/22 01:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/12/22 10:35	1

Method: 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			08/12/22 09:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/22 15:10	08/11/22 18:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/22 15:10	08/11/22 18:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/22 15:10	08/11/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*08/11/22 15:10*	*08/11/22 18:59*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/11/22 15:10*	*08/11/22 18:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.43**		5.01	mg/Kg			08/12/22 01:37	1

Surrogate Summary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

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)
890-2736-A-1-B MS	Matrix Spike	128	97
890-2736-A-1-C MSD	Matrix Spike Duplicate	120	86
890-2737-1	FS02	89	78
890-2737-2	FS03	114	87
LCS 880-32003/1-A	Lab Control Sample	107	100
LCSD 880-32003/2-A	Lab Control Sample Dup	121	100
MB 880-31863/5-A	Method Blank	97	81
MB 880-32003/5-A	Method Blank	98	84

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)
890-2732-A-1-B MS	Matrix Spike	71	67 S1-
890-2732-A-1-C MSD	Matrix Spike Duplicate	73	71
890-2737-1	FS02	88	103
890-2737-2	FS03	101	115
LCS 880-31853/2-A	Lab Control Sample	103	103
LCSD 880-31853/3-A	Lab Control Sample Dup	119	122
MB 880-31853/1-A	Method Blank	93	112

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31863/5-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31863

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/22 16:02	08/11/22 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/09/22 16:02*	*08/11/22 12:35*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*08/09/22 16:02*	*08/11/22 12:35*	*1*

Lab Sample ID: MB 880-32003/5-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32003

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/11/22 11:30	08/11/22 23:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/11/22 11:30*	*08/11/22 23:12*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*08/11/22 11:30*	*08/11/22 23:12*	*1*

Lab Sample ID: LCS 880-32003/1-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32003

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07932		mg/Kg		79	70 - 130		
Toluene			0.100	0.09050		mg/Kg		91	70 - 130		
Ethylbenzene			0.100	0.09368		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1953		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.1082		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-32003/2-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32003

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1007		mg/Kg		101	70 - 130	24	35

QC Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

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

Lab Sample ID: LCSD 880-32003/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31940 — **Prep Batch: 32003**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09974		mg/Kg		100	70 - 130	10	35
Ethylbenzene			0.100	0.1108		mg/Kg		111	70 - 130	17	35
m-Xylene & p-Xylene			0.200	0.2294		mg/Kg		115	70 - 130	16	35
o-Xylene			0.100	0.1269		mg/Kg		127	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-2736-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31940 — **Prep Batch: 32003**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.101	0.08521		mg/Kg		85	70 - 130
Toluene	<0.00199	U	0.101	0.09050		mg/Kg		90	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.1006		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2138		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.101	0.1176		mg/Kg		117	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-2736-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31940 — **Prep Batch: 32003**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.06978	F1	mg/Kg		69	70 - 130	20	35
Toluene	<0.00199	U	0.101	0.09112		mg/Kg		90	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.09830		mg/Kg		98	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2031		mg/Kg		101	70 - 130	5	35
o-Xylene	<0.00199	U	0.101	0.1115		mg/Kg		111	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

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

Lab Sample ID: MB 880-31853/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31943 — **Prep Batch: 31853**

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		08/09/22 15:10	08/11/22 10:17	1

QC Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

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

Lab Sample ID: MB 880-31853/1-A
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31853

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/09/22 15:10	08/11/22 10:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/09/22 15:10	08/11/22 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/09/22 15:10*	*08/11/22 10:17*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/09/22 15:10*	*08/11/22 10:17*	*1*

Lab Sample ID: LCS 880-31853/2-A
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31853

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	925.9		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	926.0		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: LCSD 880-31853/3-A
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31853

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1030		mg/Kg		103	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1070		mg/Kg		107	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*122*		*70 - 130*

Lab Sample ID: 890-2732-A-1-B MS
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	974.0		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	623.0	F1	mg/Kg		62	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*71*		*70 - 130*
o-Terphenyl	*67*	*S1-*	*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

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

Lab Sample ID: 890-2732-A-1-C MSD
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	929.9		mg/Kg		91	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	668.7	F1	mg/Kg		67	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*73*		*70 - 130*
o-Terphenyl	*71*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31949/1-A
Matrix: Solid
Analysis Batch: 32041

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			08/11/22 22:24	1

Lab Sample ID: LCS 880-31949/2-A
Matrix: Solid
Analysis Batch: 32041

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	236.9		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-31949/3-A
Matrix: Solid
Analysis Batch: 32041

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			251	238.3		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 890-2736-A-4-B MS
Matrix: Solid
Analysis Batch: 32041

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	20.8		250	278.2		mg/Kg		103	90 - 110		

Lab Sample ID: 890-2736-A-4-C MSD
Matrix: Solid
Analysis Batch: 32041

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	20.8		251	277.0		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

GC VOA

Prep Batch: 31863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31863/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 31940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2737-1	FS02	Total/NA	Solid	8021B	32003
890-2737-2	FS03	Total/NA	Solid	8021B	32003
MB 880-31863/5-A	Method Blank	Total/NA	Solid	8021B	31863
MB 880-32003/5-A	Method Blank	Total/NA	Solid	8021B	32003
LCS 880-32003/1-A	Lab Control Sample	Total/NA	Solid	8021B	32003
LCSD 880-32003/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32003
890-2736-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	32003
890-2736-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32003

Prep Batch: 32003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2737-1	FS02	Total/NA	Solid	5035	
890-2737-2	FS03	Total/NA	Solid	5035	
MB 880-32003/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32003/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32003/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2736-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-2736-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 32088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2737-1	FS02	Total/NA	Solid	Total BTEX	
890-2737-2	FS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 31853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2737-1	FS02	Total/NA	Solid	8015NM Prep	
890-2737-2	FS03	Total/NA	Solid	8015NM Prep	
MB 880-31853/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31853/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31853/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2732-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2732-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2737-1	FS02	Total/NA	Solid	8015B NM	31853
890-2737-2	FS03	Total/NA	Solid	8015B NM	31853
MB 880-31853/1-A	Method Blank	Total/NA	Solid	8015B NM	31853
LCS 880-31853/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31853
LCSD 880-31853/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31853
890-2732-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	31853
890-2732-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31853

QC Association Summary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

GC Semi VOA

Analysis Batch: 32060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2737-1	FS02	Total/NA	Solid	8015 NM	
890-2737-2	FS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2737-1	FS02	Soluble	Solid	DI Leach	
890-2737-2	FS03	Soluble	Solid	DI Leach	
MB 880-31949/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31949/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31949/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2736-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2736-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 32041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2737-1	FS02	Soluble	Solid	300.0	31949
890-2737-2	FS03	Soluble	Solid	300.0	31949
MB 880-31949/1-A	Method Blank	Soluble	Solid	300.0	31949
LCS 880-31949/2-A	Lab Control Sample	Soluble	Solid	300.0	31949
LCSD 880-31949/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31949
890-2736-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	31949
890-2736-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31949

Lab Chronicle

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

Client Sample ID: FS02
Date Collected: 08/10/22 09:35
Date Received: 08/10/22 14:06

Lab Sample ID: 890-2737-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	32003	08/11/22 11:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31940	08/12/22 00:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			32088	08/12/22 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			32060	08/12/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31853	08/11/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			31943	08/11/22 18:38	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	31949	08/11/22 09:02	AJ	EET MID
Soluble	Analysis	300.0		1			32041	08/12/22 01:28	CH	EET MID

Client Sample ID: FS03
Date Collected: 08/10/22 09:40
Date Received: 08/10/22 14:06

Lab Sample ID: 890-2737-2
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	32003	08/11/22 11:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31940	08/12/22 01:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			32088	08/12/22 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			32060	08/12/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31853	08/11/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			31943	08/11/22 18:59	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	31949	08/11/22 09:02	AJ	EET MID
Soluble	Analysis	300.0		1			32041	08/12/22 01:37	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: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this 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: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

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	MCAWW	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

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Montera Federal 10M CTB

Job ID: 890-2737-1
SDG: 03D2024014

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2737-1	FS02	Solid	08/10/22 09:35	08/10/22 14:06	1
890-2737-2	FS03	Solid	08/10/22 09:40	08/10/22 14:06	1

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: _____

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennigns
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	817-683-2503	Email:	kjennings@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:	Montera Federal 10M CTB	Turn Around	
Project Number:	03D2024014	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Conner Shore	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:	TNM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.0	
Total Containers:		Corrected Temperature:	5.0	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
FS01	S	08.10.22	935	1'	C	1		x	x	x	
FS02	S	08.10.22	940	1'	C	1		x	x	x	
											NAPP213544784

ANALYSIS REQUEST — Parameters

890-2737 Chain of Custody

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

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.10.22 1406	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2737-1
SDG Number: 03D2024014

Login Number: 2737
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2737-1
SDG Number: 03D2024014

Login Number: 2737
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/11/22 12:13 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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-9832-1
Laboratory Sample Delivery Group: 32.1390991, -103.362978
Client Project/Site: Montera Fed 601H

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Kalei Jennings

JKramer

Authorized for release by:
1/11/2022 4:32:13 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Montera Fed 601H

Laboratory Job ID: 880-9832-1
SDG: 32.1390991, -103.362978

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high 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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

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: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

Job ID: 880-9832-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-9832-1

Receipt
The samples were received on 1/4/2022 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C

GC VOA
Method 8021B: 4-Bromofluorobenzene recovery for the following samples were outside the upper control limit: SS02 (880-9832-2), SS04 (880-9832-4) and (LCSD 880-16035/2-A).

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

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

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

Client Sample Results

Client: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

Client Sample ID: SS01 Lab Sample ID: 880-9832-1

Date Collected: 01/04/22 10:34 **Matrix: Solid**
Date Received: 01/04/22 15:10
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		01/05/22 07:48	01/05/22 11:26	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		01/05/22 07:48	01/05/22 11:26	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		01/05/22 07:48	01/05/22 11:26	1
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.00400		mg/Kg		01/05/22 07:48	01/05/22 11:26	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		01/05/22 07:48	01/05/22 11:26	1
Xylenes, Total	<0.00400	U F2 F1	0.00400		mg/Kg		01/05/22 07:48	01/05/22 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/05/22 07:48*	*01/05/22 11:26*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/05/22 07:48*	*01/05/22 11:26*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**647**		50.0		mg/Kg			01/06/22 12:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/04/22 16:39	01/05/22 15:35	1
Diesel Range Organics (Over C10-C28)	**647**		50.0		mg/Kg		01/04/22 16:39	01/05/22 15:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/22 16:39	01/05/22 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*01/04/22 16:39*	*01/05/22 15:35*	*1*
o-Terphenyl	*107*		*70 - 130*	*01/04/22 16:39*	*01/05/22 15:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.9**		4.95		mg/Kg			01/10/22 22:23	1

Client Sample ID: SS02 Lab Sample ID: 880-9832-2

Date Collected: 01/04/22 10:37 **Matrix: Solid**
Date Received: 01/04/22 15:10
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/05/22 07:48	01/05/22 11:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/05/22 07:48	01/05/22 11:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/05/22 07:48	01/05/22 11:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/05/22 07:48	01/05/22 11:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/05/22 07:48	01/05/22 11:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/05/22 07:48	01/05/22 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*01/05/22 07:48*	*01/05/22 11:47*	*1*

Client Sample Results

Client: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

Client Sample ID: SS02 Lab Sample ID: 880-9832-2

Date Collected: 01/04/22 10:37 **Matrix: Solid**
Date Received: 01/04/22 15:10
Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*01/05/22 07:48*	*01/05/22 11:47*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/10/22 11:51	1

Method: 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			01/06/22 12:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/04/22 16:39	01/05/22 15:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/04/22 16:39	01/05/22 15:56	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/04/22 16:39	01/05/22 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*94*		*70 - 130*	*01/04/22 16:39*	*01/05/22 15:56*	*1*
o-Terphenyl	*84*		*70 - 130*	*01/04/22 16:39*	*01/05/22 15:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.7**		5.04	mg/Kg			01/10/22 22:33	1

Client Sample ID: SS03 Lab Sample ID: 880-9832-3

Date Collected: 01/04/22 10:39 **Matrix: Solid**
Date Received: 01/04/22 15:10
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/05/22 07:48	01/05/22 12:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/05/22 07:48	01/05/22 12:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/05/22 07:48	01/05/22 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/05/22 07:48	01/05/22 12:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/05/22 07:48	01/05/22 12:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/05/22 07:48	01/05/22 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/05/22 07:48*	*01/05/22 12:07*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/05/22 07:48*	*01/05/22 12:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**340**		50.0	mg/Kg			01/06/22 12:44	1

Eurofins Midland

Client Sample Results

Client: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

Client Sample ID: SS03 Lab Sample ID: 880-9832-3

Date Collected: 01/04/22 10:39 **Matrix: Solid**
Date Received: 01/04/22 15:10
Sample Depth: 0.5'

Method: 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		01/04/22 16:39	01/05/22 16:16	1
Diesel Range Organics (Over C10-C28)	**340**		50.0		mg/Kg		01/04/22 16:39	01/05/22 16:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/22 16:39	01/05/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*01/04/22 16:39*	*01/05/22 16:16*	*1*
o-Terphenyl	*90*		*70 - 130*	*01/04/22 16:39*	*01/05/22 16:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.9**		4.99		mg/Kg			01/11/22 14:29	1

Client Sample ID: SS04 Lab Sample ID: 880-9832-4

Date Collected: 01/04/22 10:41 **Matrix: Solid**
Date Received: 01/04/22 15:10
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/05/22 07:48	01/05/22 12:27	1
Toluene	**0.160**		0.00198		mg/Kg		01/05/22 07:48	01/05/22 12:27	1
Ethylbenzene	**0.0545**		0.00198		mg/Kg		01/05/22 07:48	01/05/22 12:27	1
m-Xylene & p-Xylene	**0.177**		0.00397		mg/Kg		01/05/22 07:48	01/05/22 12:27	1
o-Xylene	**0.0721**		0.00198		mg/Kg		01/05/22 07:48	01/05/22 12:27	1
Xylenes, Total	**0.249**		0.00397		mg/Kg		01/05/22 07:48	01/05/22 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*	*01/05/22 07:48*	*01/05/22 12:27*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*01/05/22 07:48*	*01/05/22 12:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.464**		0.00397		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1400**		50.0		mg/Kg			01/06/22 12:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/04/22 16:39	01/05/22 16:37	1
Diesel Range Organics (Over C10-C28)	**1400**		50.0		mg/Kg		01/04/22 16:39	01/05/22 16:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/22 16:39	01/05/22 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*01/04/22 16:39*	*01/05/22 16:37*	*1*
o-Terphenyl	*105*		*70 - 130*	*01/04/22 16:39*	*01/05/22 16:37*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Montera Fed 601H

Job ID: 880-9832-1
SDG: 32.1390991, -103.362978

Client Sample ID: SS04

Date Collected: 01/04/22 10:41
Date Received: 01/04/22 15:10
Sample Depth: 0.5'

Lab Sample ID: 880-9832-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.9		4.97		mg/Kg			01/10/22 22:42	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Montera Fed 601H

Job ID: 880-9832-1
SDG: 32.1390991, -103.362978

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-9832-1	SS01	104	110
880-9832-1 MS	SS01	119	117
880-9832-1 MSD	SS01	118	105
880-9832-2	SS02	145 S1+	117
880-9832-3	SS03	109	90
880-9832-4	SS04	161 S1+	85
LCS 880-16035/1-A	Lab Control Sample	116	107
LCSD 880-16035/2-A	Lab Control Sample Dup	133 S1+	128
MB 880-16035/5-A	Method Blank	100	105

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-9793-A-1-E MS	Matrix Spike	95	82
880-9793-A-1-F MSD	Matrix Spike Duplicate	97	97
880-9832-1	SS01	106	107
880-9832-2	SS02	94	84
880-9832-3	SS03	99	90
880-9832-4	SS04	100	105

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO2	OTPH2
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
LCS 880-16017/2-A	Lab Control Sample	83	84
LCSD 880-16017/3-A	Lab Control Sample Dup	93	87
MB 880-16017/1-A	Method Blank	93	93

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Montera Fed 601H

Job ID: 880-9832-1
SDG: 32.1390991, -103.362978

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16035/5-A
Matrix: Solid
Analysis Batch: 16038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16035

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/22 07:48	01/05/22 11:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/22 07:48	01/05/22 11:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/22 07:48	01/05/22 11:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/05/22 07:48	01/05/22 11:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/22 07:48	01/05/22 11:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/05/22 07:48	01/05/22 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/05/22 07:48*	*01/05/22 11:05*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/05/22 07:48*	*01/05/22 11:05*	*1*

Lab Sample ID: LCS 880-16035/1-A
Matrix: Solid
Analysis Batch: 16038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16035

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07126		mg/Kg		71	70 - 130		
Toluene			0.100	0.07102		mg/Kg		71	70 - 130		
Ethylbenzene			0.100	0.07381		mg/Kg		74	70 - 130		
m-Xylene & p-Xylene			0.200	0.1596		mg/Kg		80	70 - 130		
o-Xylene			0.100	0.08193		mg/Kg		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-16035/2-A
Matrix: Solid
Analysis Batch: 16038

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16035

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07161		mg/Kg		72	70 - 130	0	35
Toluene			0.100	0.07438		mg/Kg		74	70 - 130	5	35
Ethylbenzene			0.100	0.08415		mg/Kg		84	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.1740		mg/Kg		87	70 - 130	9	35
o-Xylene			0.100	0.08829		mg/Kg		88	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*

Lab Sample ID: 880-9832-1 MS
Matrix: Solid
Analysis Batch: 16038

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 16035

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F2 F1	0.100	0.07479		mg/Kg		74	70 - 130		
Toluene	<0.00200	U F2 F1	0.100	0.06185	F1	mg/Kg		61	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: Montera Fed 601H

Job ID: 880-9832-1
SDG: 32.1390991, -103.362978

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

Lab Sample ID: 880-9832-1 MS
Matrix: Solid
Analysis Batch: 16038

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 16035

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U F2 F1	0.100	0.04817	F1	mg/Kg		48	70 - 130
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.201	0.09237	F1	mg/Kg		45	70 - 130
o-Xylene	<0.00200	U F2 F1	0.100	0.04840	F1	mg/Kg		48	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: 880-9832-1 MSD
Matrix: Solid
Analysis Batch: 16038

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 16035

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0996	0.05117	F2 F1	mg/Kg		51	70 - 130	38	35
Toluene	<0.00200	U F2 F1	0.0996	0.04211	F2 F1	mg/Kg		42	70 - 130	38	35
Ethylbenzene	<0.00200	U F2 F1	0.0996	0.02536	F2 F1	mg/Kg		25	70 - 130	62	35
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.199	0.04725	F2 F1	mg/Kg		23	70 - 130	65	35
o-Xylene	<0.00200	U F2 F1	0.0996	0.02367	F2 F1	mg/Kg		23	70 - 130	69	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 880-16017/1-A
Matrix: Solid
Analysis Batch: 16025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16017

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		01/04/22 16:39	01/05/22 11:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/04/22 16:39	01/05/22 11:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/22 16:39	01/05/22 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*01/04/22 16:39*	*01/05/22 11:51*	*1*
o-Terphenyl	*93*		*70 - 130*	*01/04/22 16:39*	*01/05/22 11:51*	*1*

Lab Sample ID: LCS 880-16017/2-A
Matrix: Solid
Analysis Batch: 16025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16017

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10			1000	870.6		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)			1000	815.1		mg/Kg		82	70 - 130

Eurofins Midland

QC Sample Results

Client: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

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

Lab Sample ID: LCS 880-16017/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16025 **Prep Batch: 16017**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-16017/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16025 **Prep Batch: 16017**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	892.4		mg/Kg		89	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	822.4		mg/Kg		82	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 880-9793-A-1-E MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16025 **Prep Batch: 16017**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	961.0		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	851.5		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-9793-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16025 **Prep Batch: 16017**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	976.0		mg/Kg		98	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	909.7		mg/Kg		91	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	97		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Montera Fed 601H

Job ID: 880-9832-1
SDG: 32.1390991, -103.362978

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16125/1-A
Matrix: Solid
Analysis Batch: 16253

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			01/10/22 21:23	1

Lab Sample ID: LCS 880-16125/2-A
Matrix: Solid
Analysis Batch: 16253

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	266.5		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-16125/3-A
Matrix: Solid
Analysis Batch: 16253

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	267.8		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 880-9831-A-9-C MS
Matrix: Solid
Analysis Batch: 16253

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	1070		250	1302	4	mg/Kg		95	90 - 110		

Lab Sample ID: 880-9831-A-9-D MSD
Matrix: Solid
Analysis Batch: 16253

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	1070		250	1293	4	mg/Kg		91	90 - 110	1	20

Lab Sample ID: MB 880-16513/1-A
Matrix: Solid
Analysis Batch: 16514

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			01/11/22 13:43	1

Lab Sample ID: LCS 880-16513/2-A
Matrix: Solid
Analysis Batch: 16514

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-16513/3-A
Matrix: Solid
Analysis Batch: 16514

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	254.0		mg/Kg		102	90 - 110	0	20

QC Sample Results

Client: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-9832-3 MS **Client Sample ID: SS03**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 16514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	13.9		250	282.8		mg/Kg		108	90 - 110		

Lab Sample ID: 880-9832-3 MSD **Client Sample ID: SS03**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 16514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	13.9		250	280.9		mg/Kg		107	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

GC VOA

Prep Batch: 16035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9832-1	SS01	Total/NA	Solid	5035	
880-9832-2	SS02	Total/NA	Solid	5035	
880-9832-3	SS03	Total/NA	Solid	5035	
880-9832-4	SS04	Total/NA	Solid	5035	
MB 880-16035/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16035/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16035/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9832-1 MS	SS01	Total/NA	Solid	5035	
880-9832-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 16038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9832-1	SS01	Total/NA	Solid	8021B	16035
880-9832-2	SS02	Total/NA	Solid	8021B	16035
880-9832-3	SS03	Total/NA	Solid	8021B	16035
880-9832-4	SS04	Total/NA	Solid	8021B	16035
MB 880-16035/5-A	Method Blank	Total/NA	Solid	8021B	16035
LCS 880-16035/1-A	Lab Control Sample	Total/NA	Solid	8021B	16035
LCSD 880-16035/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16035
880-9832-1 MS	SS01	Total/NA	Solid	8021B	16035
880-9832-1 MSD	SS01	Total/NA	Solid	8021B	16035

Analysis Batch: 16426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9832-1	SS01	Total/NA	Solid	Total BTEX	
880-9832-2	SS02	Total/NA	Solid	Total BTEX	
880-9832-3	SS03	Total/NA	Solid	Total BTEX	
880-9832-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 16017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9832-1	SS01	Total/NA	Solid	8015NM Prep	
880-9832-2	SS02	Total/NA	Solid	8015NM Prep	
880-9832-3	SS03	Total/NA	Solid	8015NM Prep	
880-9832-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-16017/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16017/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16017/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9793-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9793-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9832-1	SS01	Total/NA	Solid	8015B NM	16017
880-9832-2	SS02	Total/NA	Solid	8015B NM	16017
880-9832-3	SS03	Total/NA	Solid	8015B NM	16017
880-9832-4	SS04	Total/NA	Solid	8015B NM	16017
MB 880-16017/1-A	Method Blank	Total/NA	Solid	8015B NM	16017
LCS 880-16017/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16017

QC Association Summary

Client: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

GC Semi VOA (Continued)

Analysis Batch: 16025 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-16017/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16017
880-9793-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	16017
880-9793-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16017

Analysis Batch: 16143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9832-1	SS01	Total/NA	Solid	8015 NM	
880-9832-2	SS02	Total/NA	Solid	8015 NM	
880-9832-3	SS03	Total/NA	Solid	8015 NM	
880-9832-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9832-1	SS01	Soluble	Solid	DI Leach	
880-9832-2	SS02	Soluble	Solid	DI Leach	
880-9832-4	SS04	Soluble	Solid	DI Leach	
MB 880-16125/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16125/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16125/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9831-A-9-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9831-A-9-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 16253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9832-1	SS01	Soluble	Solid	300.0	16125
880-9832-2	SS02	Soluble	Solid	300.0	16125
880-9832-4	SS04	Soluble	Solid	300.0	16125
MB 880-16125/1-A	Method Blank	Soluble	Solid	300.0	16125
LCS 880-16125/2-A	Lab Control Sample	Soluble	Solid	300.0	16125
LCSD 880-16125/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16125
880-9831-A-9-C MS	Matrix Spike	Soluble	Solid	300.0	16125
880-9831-A-9-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	16125

Leach Batch: 16513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9832-3	SS03	Soluble	Solid	DI Leach	
MB 880-16513/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16513/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16513/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9832-3 MS	SS03	Soluble	Solid	DI Leach	
880-9832-3 MSD	SS03	Soluble	Solid	DI Leach	

Analysis Batch: 16514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9832-3	SS03	Soluble	Solid	300.0	16513
MB 880-16513/1-A	Method Blank	Soluble	Solid	300.0	16513
LCS 880-16513/2-A	Lab Control Sample	Soluble	Solid	300.0	16513
LCSD 880-16513/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16513
880-9832-3 MS	SS03	Soluble	Solid	300.0	16513

QC Association Summary

Client: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

HPLC/IC (Continued)

Analysis Batch: 16514 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9832-3 MSD	SS03	Soluble	Solid	300.0	16513

Lab Chronicle

Client: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

Client Sample ID: SS01 Lab Sample ID: 880-9832-1

Date Collected: 01/04/22 10:34 **Matrix: Solid**
Date Received: 01/04/22 15:10

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	16035	01/05/22 07:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16038	01/05/22 11:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16143	01/06/22 12:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16017	01/04/22 16:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/05/22 15:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16125	01/06/22 11:35	CH	XEN MID
Soluble	Analysis	300.0		1			16253	01/10/22 22:23	CH	XEN MID

Client Sample ID: SS02 Lab Sample ID: 880-9832-2

Date Collected: 01/04/22 10:37 **Matrix: Solid**
Date Received: 01/04/22 15:10

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	16035	01/05/22 07:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16038	01/05/22 11:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16143	01/06/22 12:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16017	01/04/22 16:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/05/22 15:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16125	01/06/22 11:35	CH	XEN MID
Soluble	Analysis	300.0		1			16253	01/10/22 22:33	CH	XEN MID

Client Sample ID: SS03 Lab Sample ID: 880-9832-3

Date Collected: 01/04/22 10:39 **Matrix: Solid**
Date Received: 01/04/22 15:10

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	16035	01/05/22 07:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16038	01/05/22 12:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16143	01/06/22 12:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16017	01/04/22 16:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/05/22 16:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16513	01/11/22 11:37	CH	XEN MID
Soluble	Analysis	300.0		1			16514	01/11/22 14:29	CH	XEN MID

Client Sample ID: SS04 Lab Sample ID: 880-9832-4

Date Collected: 01/04/22 10:41 **Matrix: Solid**
Date Received: 01/04/22 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	16035	01/05/22 07:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16038	01/05/22 12:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16426	01/10/22 11:51	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Montera Fed 601H

Job ID: 880-9832-1
SDG: 32.1390991, -103.362978

Client Sample ID: SS04

Date Collected: 01/04/22 10:41
Date Received: 01/04/22 15:10

Lab Sample ID: 880-9832-4

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			16143	01/06/22 12:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16017	01/04/22 16:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/05/22 16:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16125	01/06/22 11:35	CH	XEN MID
Soluble	Analysis	300.0		1			16253	01/10/22 22:42	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

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	T104704400-21-22	06-30-22

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

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

Method Summary

Client: WSP USA Inc. Job ID: 880-9832-1
Project/Site: Montera Fed 601H SDG: 32.1390991, -103.362978

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Montera Fed 601H

Job ID: 880-9832-1
SDG: 32.1390991, -103.362978

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-9832-1	SS01	Solid	01/04/22 10:34	01/04/22 15:10	0.5'
880-9832-2	SS02	Solid	01/04/22 10:37	01/04/22 15:10	0.5'
880-9832-3	SS03	Solid	01/04/22 10:39	01/04/22 15:10	0.5'
880-9832-4	SS04	Solid	01/04/22 10:41	01/04/22 15:10	0.5'

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach, FL (561) 689-6701
Atlanta GA (770) 449-8800

880-9832 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager	Kalei Jennings	Bill to (if different)	
Company Name	WSP USA	Company Name	
Address	3300 North A Street, Bldg 1, Unit 222	Address	
City, State ZIP	Midland, TX 79705	City State ZIP	
Phone	817-683-2503 Email	Kalei.Jennings@wsp.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level I ☐ Level ☐ PST/US ☐ TRR ☐ Level IV ☐
Deliverables EDD ☒ ADaPT ☐ Other:

Project Name	Montera Fed 601H	Turn Around	
Project Number	31403720 000	Routine	☒
Project Location	32.1390991, -103.3629748	Rush	☐
Sampler's Name	Hadlie Green	Due Date	5 DAY TAT
PO #			

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice	(Yes) No	
Temperature (°C)	4.8/4.9	Thermometer ID	IR8	
Received Intact	(Yes) No			
Cooler Custody Seals	Yes No (N/A)	Correction Factor	1.0	
Sample Custody Seals	Yes No (N/A)	Total Containers		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (EPA 8021)	TPH (EPA 8015)	CHLORIDES (EPA 300.0)
SS01	SL	1-4-22	1034	0.5'	1	X	X	X
SS02			1037					
SS03			1039					
SS04			1041					

Preservative Codes

HNO3 HN
H2S04 H2
HCL HL
None NO
NaOH Na
MeOH Me
Zn Acetate+ NaOH Zn

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

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr 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 **1631 / 245.1 / 7470 / 7471** Hg

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Hadlie Green	Lucero R	1-4-22 1510	2		
3			4		
5			6		

Revised Date101419 Rev 2019 1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-9832-1
SDG Number: 32.1390991, -103.362978

Login Number: 9832
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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	

ENSOLUM

APPENDIX E

NMOCD Notifications

From: Nobui, Jennifer, EMNRD
To: Kalei Jennings
Cc: Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject: FW: [EXTERNAL] COP- Sampling Notification (Week of 5/23/22-5/27/22)
Date: Thursday, May 19, 2022 12:29:01 PM
Attachments: image001.png
image002.png
image003.png
image004.png

[**EXTERNAL EMAIL**]

Kalei,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Thursday, May 19, 2022 10:40 AM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: Fw: [EXTERNAL] COP- Sampling Notification (Week of 5/23/22-5/27/22)

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Thursday, May 19, 2022 10:21 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Subject: [EXTERNAL] COP- Sampling Notification (Week of 5/23/22-5/27/22)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

COP plans to complete final sampling activities at the following sites the week of May 23, 2022.

Monday

- Mortarboard Federal Com 013H / NAPP2206950640
- Montera Federal 10M CTB / NAPP2135442784

Tuesday

- Montera Federal 10M CTB / NAPP2135442784

Wednesday

- Macho Nacho 002H / NAPP200644754

Thursday

- Macho Nacho 002H / NAPP200644754

Friday

Thank you,

Kalei Jennings
Senior Scientist
817-683-2503
Ensolum, LLC

ENSOLUM

APPENDIX F

Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2135442784
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Kelsy Waggaman	Contact Telephone	(432) 688-9057
Contact email	Kelsy.Waggaman@Conocophillips.com	Incident # *(assigned by OCD)*	NAPP2135442784
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.1390991 Longitude -103.3629782
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Montera Federal 10M CTB	Site Type	Tank Battery
Date Release Discovered	December 6, 2021	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
M	10	25S	35E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* Tap Rock NM 10 Minerals, LLC)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 0.25	Volume Recovered (bbls) 0
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a incorrectly bypassed valve.
No fluid was recovered due to the fire burning off and standing fluid. The release resulted in a flare fire on the pad. ConocoPhillips will have the area evaluated for any possible impact from the release.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2135442784
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The release involved a fire.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Immediate notice was given by Kelsy Waggaman via e-mail December 7, 2021 at 1:31 pm to ocd.enviro@state.nm.us.

Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 12/20/2021

email: Brittany.Esparza@Conocophillips.com Telephone: (432) 221-0398

OCD Only

Received by: Ramona Marcus Date: 12/21/2021

L48 Spill Volume Estimate Form

Facility Name & Number:	Montera Fed 10M
Asset Area:	Delaware basin east
Release Discovery Date & Time:	12/6/21 @6PM
Release Type:	Oil
Provide any known details about the event:	Oil Spill out of the flare

NAPP2135442784

Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated *Pool* Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	18.0	9.0	0.10	1	162.000	0.008	0.240	0.000	0.240			
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
								Total Volume Release:	0.240			

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2135442784
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	50-100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2135442784
District RP	
Facility ID	
Application ID	

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

Printed Name: ___Charles Beauvais_____ Title: _Senior Environmental Engineer_____

Signature: Charles R. Beauvais II Date: __09/02/2022_____

email: _Charles.R.Beauvais@conocophillips.com _____ Telephone: ___575-988-2043_____

OCD Only

Received by: ___Jocelyn Harimon_____ Date: 08/31/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2135442784
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: ___Charles Beauvais_____ Title: ___Senior Environmental Engineer_____

Signature: ___Charles R. Beauvais II_____ Date: ___09/02/2022_____

email: ___Charles.R.Beauvais@conocophillips.com_____ Telephone: ___575-988-2043_____

OCD Only

Received by: Jocelyn Harimon Date: 08/31/2022

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

Closure Approved by: Jennifer Nobui Date: 09/08/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist 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

CONDITIONS

Action 139990

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 139990
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	9/8/2022