

Incident ID	nAPP2208844411
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

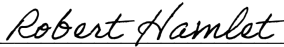
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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: Jim Raley Title: Environmental Professional
Signature:  Date: 6/16/2022
email: jim.raley@dv.com Telephone: 575-689-7597

OCD Only

Received by: Robert Hamlet Date: 10/21/2022

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

Closure Approved by:  Date: 10/21/2022
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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

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Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: jim.ralej@dv.com	Incident # (assigned by OCD) nAPP2208844411
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220	

Location of Release Source

Latitude 32.0797257 _____ Longitude -103.9514552 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: NORTH BRUSHY DRAW FEDERAL 35 #012H	Site Type: Oil Production Site
Date Release Discovered: March 21 st , 2022	API# (if applicable) 30-015-43603

Unit Letter	Section	Township	Range	County
O	35	25S	29E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

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	Volume Recovered (bbls) 0
☒ Produced Water	Volume Released (bbls) 375	Volume Recovered (bbls) 360
	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: Tank overflow allowed the release of approx. 375 bbls produced water to lined secondary containment. Hole in side of containment wall allowed release of approx. 15 bbl produced water to be released to ground outside of containment.

$$bbl\ estimate = \frac{saturated\ soil\ volume(ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})} * estimated\ soil\ porosity\ (%) + recovered\ fluids\ (bbls)$$

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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? Volume exceeds 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc) Email on 3/22/2022 to Mike Bratcher from Jim Raley.	

Initial Response

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

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>James Raley</u>	Title: Environmental Specialist _____
Signature: 	Date: <u>3/29/2022</u>
email: <u>jim.ralej@dvni.com</u>	Telephone: <u>575-689-7597</u>
OCD Only	
Received by: <u>Jocelyn Harimon</u>	Date: <u>03/29/2022</u>

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 93953

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 93953
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	3/29/2022

Incident ID	nAPP2208844411
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>105 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

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Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 6/16/2022
email: jim.raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

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Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 6/16/2022
email: jim.raley@dv.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



CLOSURE REQUEST REPORT

Site Location:

**North Brushy Draw Federal 35 #012H
Eddy County, New Mexico
Incident Number: nAPP2208844411**

June 15, 2022

Ensolum Project No. 03A1987015

Prepared for:

**WPX Energy Permian, LLC
5315 Buena Vista Dr.
Carlsbad, NM 88220
Attention: Jim Raley**

Prepared by:

A handwritten signature in black ink, appearing to read "Joseph S. Hernandez".

Joseph S. Hernandez
Senior Geologist

A handwritten signature in black ink, appearing to read "Ashley L. Ager".

Ashley Ager, M.S., PG
Program Director, Geologist

North Brushy Draw Federal #012H
Incident Number: nAPP2208844411
Closure Request Report
June 15, 2022



TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
1.1 Site Description & Release Background	1
1.2 Site Characterization	1
1.3 Watercourse Survey.....	1-3
1.4 Project Objective	3
2.0 REMEDIATION ACTIONS.....	3
2.1 Delineation Activities	3-4
2.2 Excavation Activities.....	4
2.3 Waste Handling	4
3.0 SOIL SAMPLING RESULTS	4-5
4.0 FINDINGS AND CONCLUSIONS.....	5

APPENDICES

Appendix A:	Figure 1 – Site Map Figure 2 – Watercourse Survey Figure 3 – Delineation Soil Sample Locations Figure 4 – Excavation Soil Sample Locations
Appendix B:	Well Record/Log
Appendix C:	Lithologic Soil Sampling Logs
Appendix D:	Photographic Documentation
Appendix E:	Tables
Appendix F:	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix G:	Correspondence Emails

1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Closure Request Report (CRR) to document corrective actions performed by WPX Permian Energy, LLC (WPX) at the North Brushy Draw Federal 35 #012H (hereinafter referred to as the "Site") in Unit O, Section 35, Township 25 South, Range 29 East, in Eddy County, New Mexico. The corrective actions have been completed in accordance with New Mexico Oil and Conservation Division (NMOCD) regulatory requirements and guidelines.

1.1 Site Description and Release Background

The Site is located within Eddy County, New Mexico (32.0797257 ° N, 103.9514552 ° W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land (**Figure 1 in Appendix A**).

On March 21, 2022, a tank overflowed and resulted in the release of approximately 360 barrels (bbls) of produced water to the lined secondary containment and 15 bbls of produced water was escaped through a hole in the side of the containment and onto the well pad, adjacent small area of pasture, then across the access road and onto a pipeline right-of-way (ROW). Approximately 360 bbls of contained fluids were recovered immediately. The hole was repaired following the recovery of fluids. WPX reported the release to the NMOCD via email on March 22, 2022 and with a subsequent Corrective Action Form C-141 (Form C-141) on March 29, 2022. The release was assigned Incident Number nAPP2208844411.

1.2 Site Characterization

Ensolum characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based a soil boring (MW-1) that was drilled by Talon LPE for HRL Compliance Solutions on December 8, 2020, located approximately 160 feet southeast of the Site. The soil boring location is labeled as MW-1 on **Figure 1 in Appendix A**. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 105 feet bgs. No fluids were observed within the soil boring after at least 72 hours. Following the observation period, the boring was plugged and abandoned. The well log is provided in **Appendix B**.

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 (medium potential karst designation area). 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 in Appendix A**.

1.3 Watercourse Survey

The closest continuously flowing or significant watercourse to the Site is the Pecos River, located approximately 16,258 feet west of the Site. On April 15, 2022, Ensolum personnel conducted a field investigation to confirm the presence of two potential significant watercourses identified in a desktop survey using the United States Fish and Wildlife Service (USFWS) online database, National Wetland Inventory (Wetland Mapper) displayed in **Diagram 1** and on **Figure 1**. Wetland Mapper is often used for initial evaluation of significant watercourses in response to reportable releases as required in the site characterization defined in 19.15.29.11.A(4) of the New Mexico Administrative Code (NMAC).



Diagram 1

Subsection P of 19.15.17.7 NMAC requires a defined bed and bank and either named or identified by a dashed blue line on United States Geological Survey (USGS) 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank of such watercourse.

Prior to the field investigation, Ensolum determined the surface feature to the north did present the preliminary requirements cognate to the anterior definition of a significant watercourse such that it was identified by a dashed blue line on the current USGS 7.5-minute quadrangle map (**Diagram 2**) but did not appear to reveal aerial properties of a next lower tributary that would connect to a significant watercourse. The surface feature to the south was not identified by dashed blue line on the current USGS 7.5-minute quadrangle map and did not appear to reveal aerial properties of a next lower tributary that would connect to a significant watercourse.

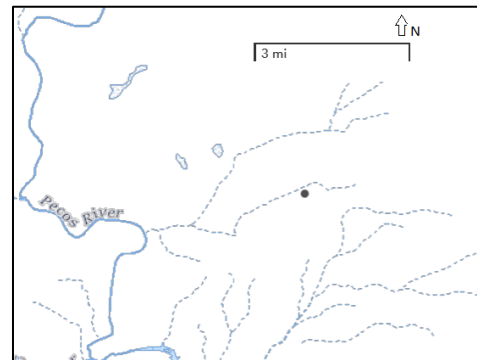


Diagram 2

As stated above, the definition of a significant watercourse includes a defined bed and bank, which would be visible in a field survey. No bed or bank were identified during the visual field surveys of the watercourses. For the Northern watercourse (Survey Photo 1) and Southern watercourse (Survey Photo 2) represented in **Diagram**



Survey Photo 1



Survey Photo 2

1, only very faint erosional paths or swales aligned with the

topographic gradient were visible (Survey Photo 1). The features did not appear to connect to a larger watercourse as both features are intersected by access roads and, for the Northern watercourse, a pipeline ROW. Ensolum was unable to identify any feature with a bed and bank within 300 feet of the release footprint. There was no evidence of fluvial deposition inside the erosional features, instead it splayed out onto the desert floor. More detailed results and photographic evidence are provided in **Figure 2 in Appendix A**.

Based on the observations presented, there are no significant watercourses located within 300 feet of the release extent per the definition of a significant watercourse in Subsection P of 19.15.17.7 NMAC. Instead, only faint erosional channels formed by drainage of water during storm events. The faint conduits are intercepted by access roads and other well pads ultimately splaying out along the desert floor without connecting to any other features. The survey tract associated with the conduit and photos is presented on **Figure 2 in Appendix A**.

Based on the desktop review of nearby receptors and depth to groundwater determination at the Site, the following NMOCD Table 1 Closure Criteria were applied (**Figure 1 in Appendix A**):

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet in the pasture area that was impacted by the release.

1.4 Project Objective

The primary objectives of Ensolum's scope of services were to document that response actions performed at the Site were completed in accordance with the applicable NMOCD regulatory guidelines and to document those concentrations of constituents of concern (COCs) in soil remaining on-Site were less than the applicable reclamation requirements and/or Closure Criteria for the Site.

2.0 REMEDIATION ACTIONS

WPX conducted delineation soil sampling activities and subsequent remediation by excavating impacted soil for off-Site disposal. WPX followed encroachment guidelines and implemented additional safety precautions by installing a butter bar to heavy equipment to safely remove impacted soil above buried gas lines in the ROW.

2.1 Delineation Activities

On May 2, 2022, delineation activities were conducted by Ensolum to confirm the presence or absence of impacted soil in areas impacted by the subject release. **See Figure 3 in Appendix A** depicting the release extent. Delineation samples were collected in potholes advanced with a backhoe (samples designated PH). Delineation activities were directed by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and

chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each delineation soil sample location: the sample with the highest observed field screening (0.5 foot bgs) and the greatest depth (ranging from 1 foot bgs to 4 feet bgs). The location of the delineation samples are shown in **Figure 3 in Appendix A**. Field screening results and observations for each delineation soil sample were recorded on lithologic/soil sampling logs (**Appendix C**). The soil samples were placed directly into a 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 LLC (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

2.2 Excavation Activities

Between May 27, 2021 and June 1, 2022, excavation activities were conducted by Ensolum to remove impacted soil associated with the subject release via heavy equipment. Excavation activities were directed by referencing delineation laboratory analytical results and by field screening soil for VOCs utilizing a calibrated PID and chloride using Hach® chloride QuanTab® test strips.

Following removal of impacted soil, WSP collected composite soil samples at a sampling frequency of 200 square feet from the sidewalls and floor of the excavation to confirm impacted soil above reclamation and/or Closure Criteria was successfully removed. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW14 were collected from the sidewalls of the excavation at depths ranging from the ground surface to approximately 4 feet bgs. Composite soil sample collection of SW15 through SW19 were collected from the sidewalls of the excavation at depths ranging from the ground surface to approximately 2 feet bgs. Composite soil samples FS01 through FS54 were collected from the floor of the excavation at depths ranging from the 1 foot bgs to approximately 4 feet bgs. Floor samples collected from 1 foot bgs contained soil from the sidewall and floor. The soil samples were handled, collected and analyzed as previously described.

The approximate extent of excavation and excavation soil sample locations is provided on **Figure 4 in Appendix A**. Photographic documentation of remediation activities is included in **Appendix D**.

2.3 Waste Handling

At the completion of remediation action activities, approximately 980 cubic yards of impacted soil were excavated under WPX approved manifests. The excavated impacted soil was transported for disposal to a R360 Environmental Solutions, LLC Facility in accordance with state and federal regulations

3.0 SOIL SAMPLING RESULTS

Final confirmation excavation soil sample laboratory analytical results indicated concentrations were below the reclamation standard requirement and/or Closure Criteria. Laboratory analytical results are summarized in the **Table 1** included in **Appendix E**. The executed chain-of-custody

forms and laboratory analytical reports are provided in **Appendix F**. **Appendix G** provides correspondence email notification receipts associated with the release.

4.0 FINDINGS AND CONCLUSIONS

Based on the results documented in this report, the following findings and conclusions regarding the Site are presented:

- Approximately 980 cubic yards of impacted soil were excavated and removed from the Site for disposal in accordance with state and federal regulations;
- Based on laboratory analytical results associated with final confirmation excavation soil samples, concentrations of COCs greater than the NMOCD applicable reclamation standard requirement and/or Closure Criteria were not identified in soil remaining on-Site; and
- Delineation soil samples on pad (PH08 through PH13) were collected and additionally confirm horizontal delineation to COCs of chloride less than 600 mg/kg and TPH less than 100 mg/kg.

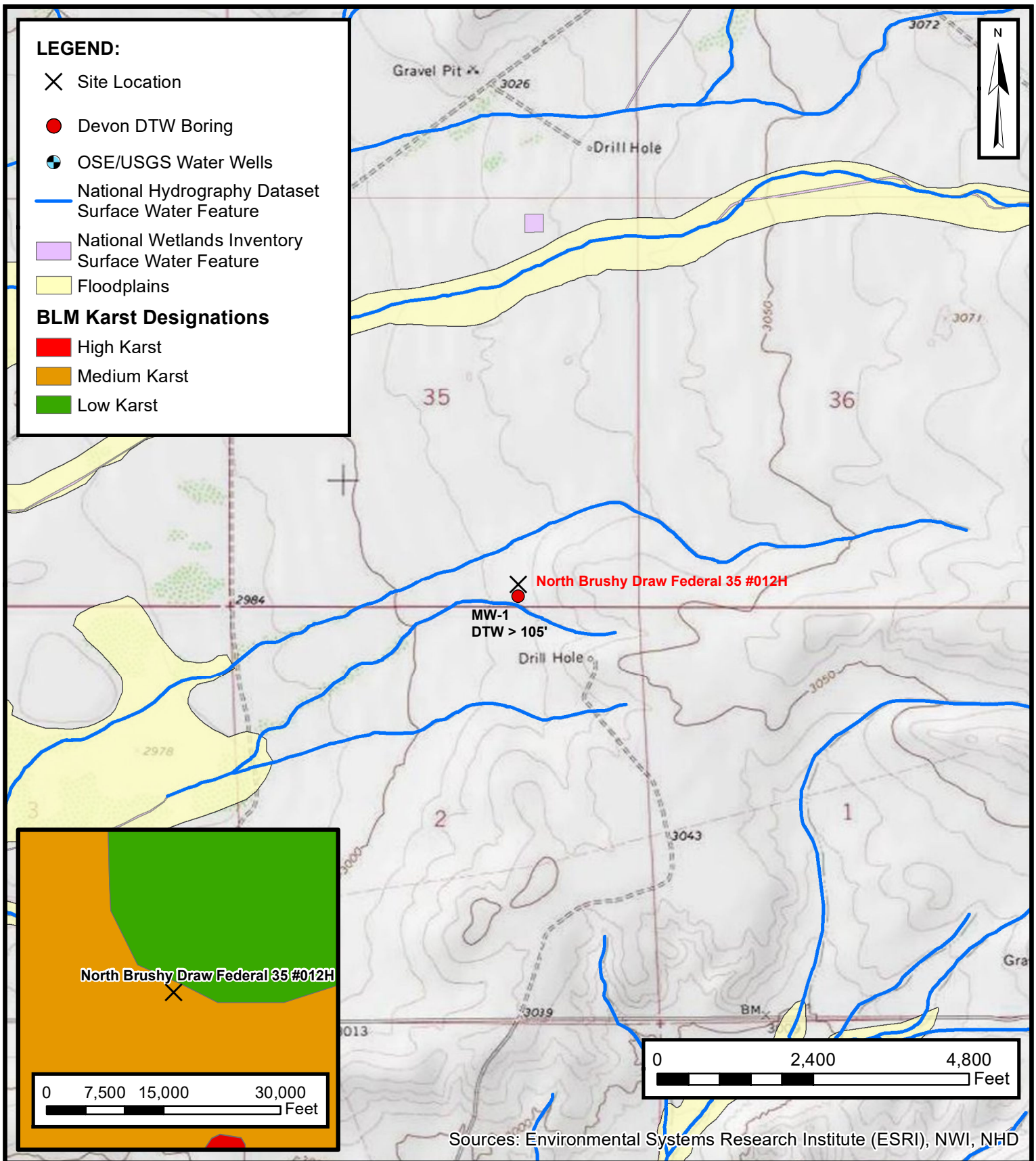
Subsequent to the completion of excavation and receipt of soil confirmation sample results documenting that impacted soil had been removed, the excavation will be backfilled with clean, imported soil and restored to “as close to its original state” as possible.

Based on the findings and conclusions of this report No Further Action appears warranted at this time and the Site should be respectfully considered for closure by the NMOCD.



APPENDIX A

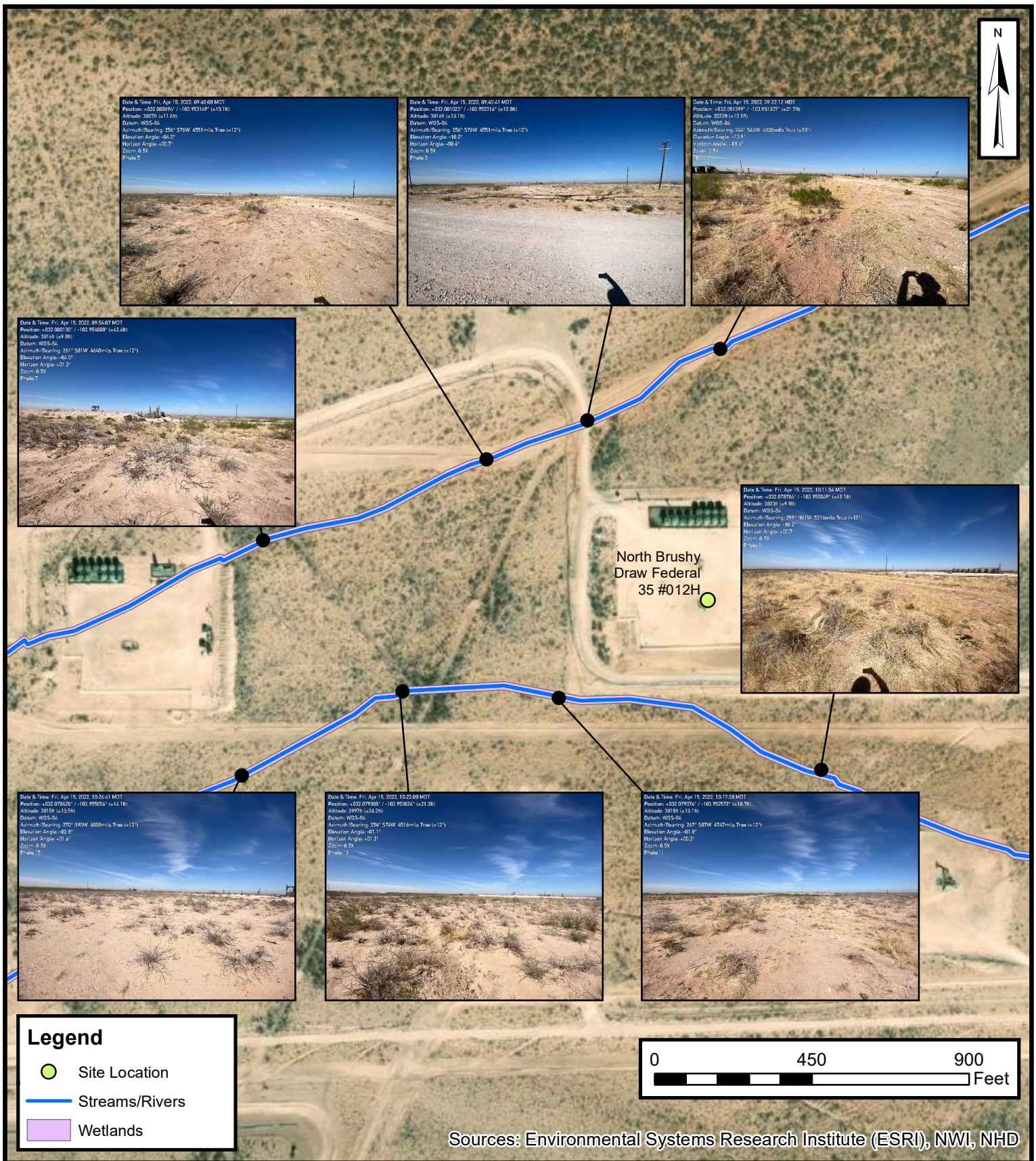
Figures



Site Receptor Map

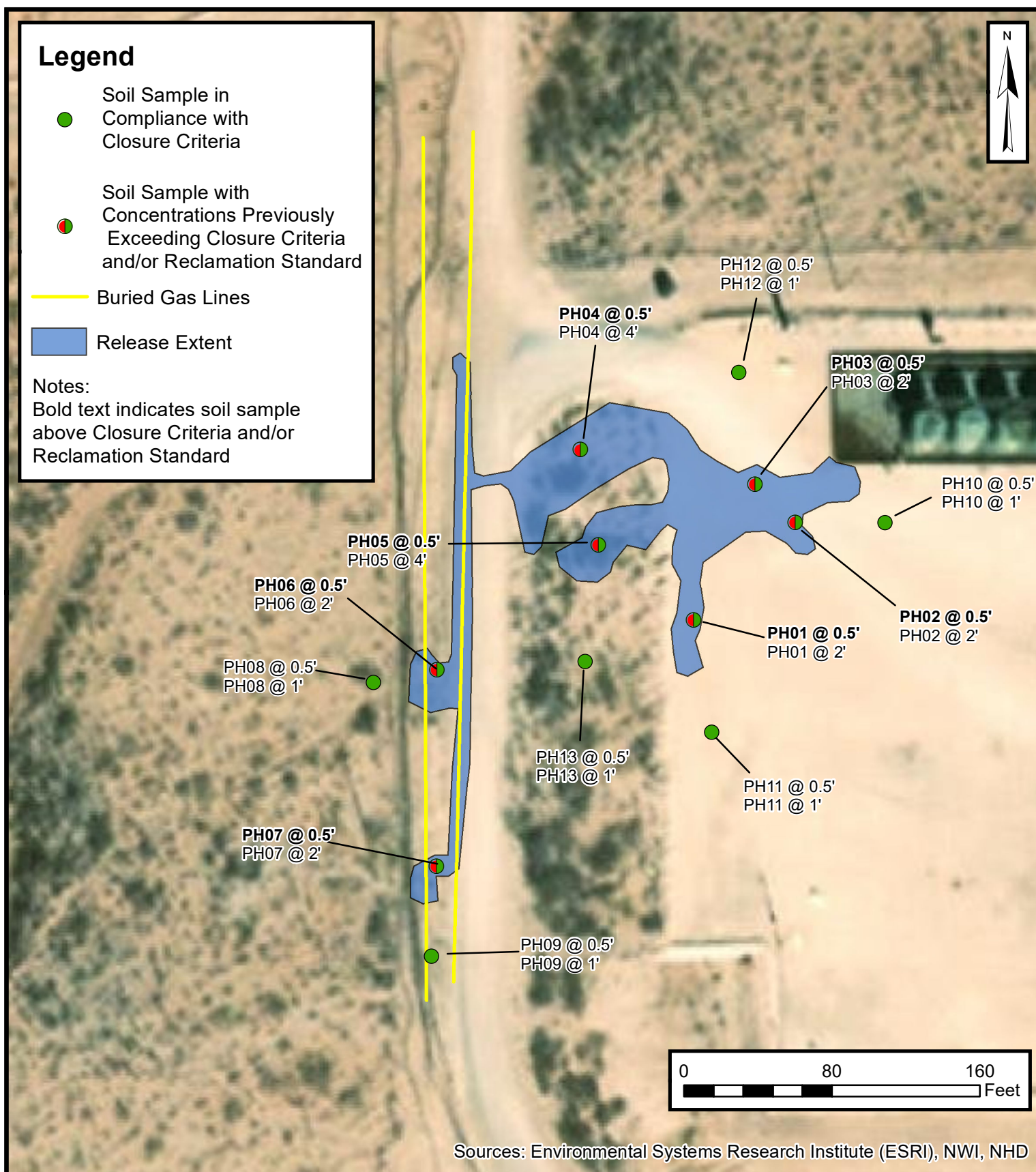
North Brushy Draw Federal 35 #012H
WPX Energy Permian, LLC
32.0797257, -103.9514552
Eddy County, NM

FIGURE
#1



Watercourse Survey

North Brushy Draw Federal 35 #012H
WPX Energy Permian, LLC
32.0797257, -103.9514552
Eddy County, NM



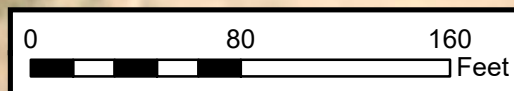
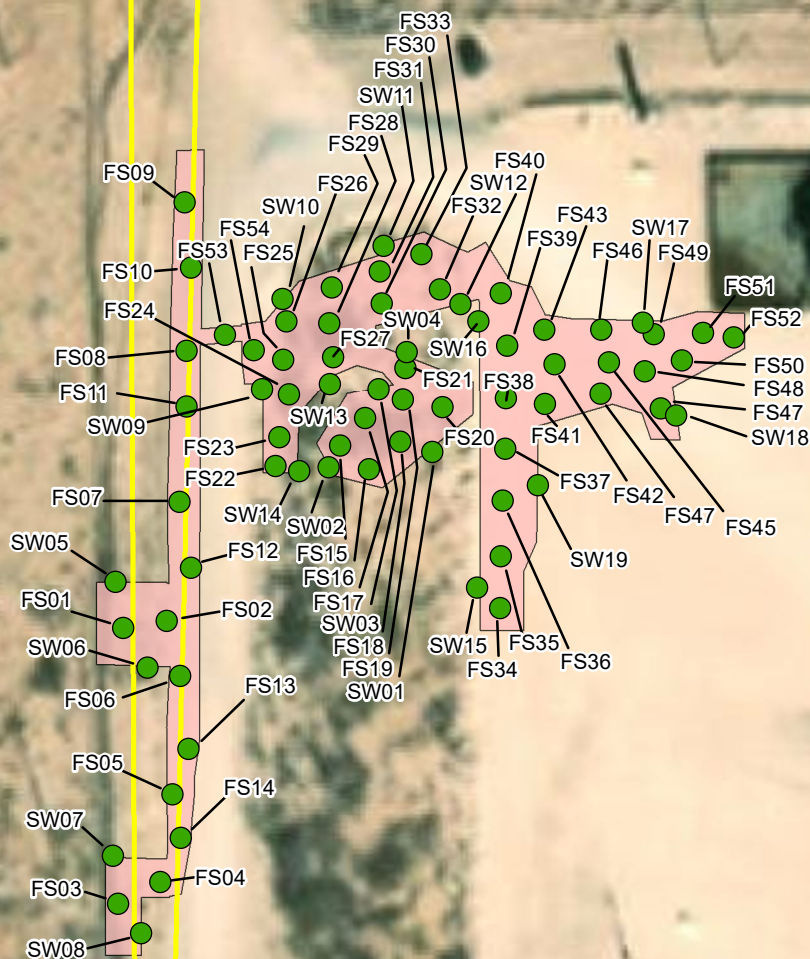
Delineation Soil Sample Locations

North Brushy Draw Federal 35 #012H
WPX Energy Permian, LLC
32.0797257, -103.9514552
Eddy County, NM

FIGURE
#3

Legend

- Soil Sample In Compliance with Applicable Closure Criteria
- Buried Gas Lines
- Excavation Extent



Sources: Environmental Systems Research Institute (ESRI), NWI, NHD



Excavation Soil Sample Locations

North Brushy Draw Federal 35 #012H
 WPX Energy Permian, LLC
 32.0797257, -103.9514552
 Eddy County, NM

FIGURE
#4



APPENDIX B

Well Record

 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
							Boring/Well Number: MW-1		Location: North Brushy Federal 35 # 010H				
							Date: 12/8/2020		Client: WPX Energy				
Drilling Method: Air Rotary		Sampling Method: None		Logged By: J. Linn, PG		Drilled By: Talon LPE							
Gravel Pack Type: 10/20 Sand		Gravel Pack Depth Interval: 3 Bags		Seal Type: None		Seal Depth Interval: None		Latitude: 32.079909					
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-100 feet bgs		Boring Total Depth (ft. BGS): 105		Longitude: -103.951386					
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 100 - 105 ft		Well Total Depth (ft. BGS): 105		Depth to Water (ft. BTWC): > 105		DTW Date: 12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks		Well Completion		
0	NM	L	D	N	N	NM	CE	NS	Buff to pale pink caliche				
5													
10													
15													
20	NM	L	D	N	N	NM	SM	NS	Tan to pale red silty sand				
25													
30													
35													
40													
45													
50	NM	M	M	N	N	NM	ML	NS	Tan to pale red sandy silt with minor medium sand				
55													
60	NM	H	M	N	N	NM	CL	NS	Tan clay with minor gravel				
65													
70													
75	NM	L	D	N	N	NM	SP	NS	Pale red poorly graded fine sand with minor silt				
75													
80													
85	NM	H	D/SLM	N	N	NM	CL	NS	Grey sandy lean clay with minor medium sand and minor angular gravel				
90													
95													
100	NM	M/H	M	N	N	NM	CL	NS	Brown with orange sandy lean clay with minor medium sand and angular gravel - TD Boring: 105'				



APPENDIX C

Lithologic Soil Sampling Logs

 ENSOLUM		Sample Name: PH01		5/2/2022				
		Site Name: North Brushy Draw Federal 35 #012H						
		Incident Number: nAPP2208844411						
		Job Number: 03A1987015						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.079714,-103.951461				Hole Diameter: N/A				
				Method: Track-Hoe				
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 factor included on chloride tests.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	1,244	117.4	Y	PH01	0.5	0	CCHE	0-1', CALICHE, moist, tan, well graded with silt very fine-coarse, trace subround-subangular gravel, H-C odor, dark brown staining.
D	<120	6.5	N		1	1	SP	1-2', SAND, dry, dark brown, poorly graded, very fine-fine, no staining, no odor.
D	<120	4.6	N	PH01	2	2	TD	Total depth @ 2' bgs.

		Sample Name: PH02		5/2/2022				
		Site Name: North Brushy Draw Federal 35 #012H						
		Incident Number: nAPP2208844411						
		Job Number: 03A1987015						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.079714,-103.951461			Logged By: GM		Method: Track-Hoe			
			Hole Diameter: N/A		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 factor included on chloride tests.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Y	232	276.2	Y	PH02	0.5	0	CCHE	0-1', CALICHE, moist, tan, well graded with silt very fine-coarse, trace subround-subangular gravel, H-C odor, dark brown staining.
D	<120	10.8	N		1	1	SP	1-2', SAND, dry, dark brown, poorly graded, very fine-fine, no staining, no odor.
D	<120	5.2	N	PH02	2	2	TD	Total depth @ 2' bgs.

								Sample Name: PH03		5/2/2022			
								Site Name: North Brushy Draw Federal 35 #012H					
								Incident Number: nAPP2208844411					
								Job Number: 03A1987015					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Track-Hoe			
Coordinates: 32.079714,-103.951461								Hole Diameter: N/A		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 factor included on chloride tests.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
Y	19,768	81.2	Y	PH03	0.5	0	CCHE	0-1', CALICHE, moist, tan, well graded with silt very fine-coarse, trace subround-subangular gravel, H-C odor, dark brown staining.					
D	264	6	N		1	1	SP	1-2', SAND, dry, dark brown, poorly graded, very fine-fine, no staining, no odor.					
D	<120	2.8	N	PH03	2	2	TD	Total depth @ 2' bgs.					

								Sample Name: PH04		5/2/2022			
								Site Name: North Brushy Draw Federal 35 #012H					
								Incident Number: nAPP2208844411					
								Job Number: 03A1987015					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Track-Hoe			
Coordinates: 32.079714,-103.951461								Hole Diameter: N/A		Total Depth: 4'			
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 factor included on chloride tests.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
M	5,928	118.1	Y	PH04	0.5	0	SP	0-3', SAND, moist, dark brown, poorly graded, very fine-fine, dark brown staining, H-C odor.					
D	2,472	14.5	N		1	1		1-3', no staining, no odor.					
D	3,428	7.1	N		2	2		3-4', CALICHE, dry, tan-light brown, well graded with silt, well consolidated, fine-coarse, no staining, no odor.					
						3							
							CCHE						
D	3,428	5	N	PH04	4	4							
							TD	Total depth @ 4' bgs.					

								Sample Name: PH05		5/2/2022			
								Site Name: North Brushy Draw Federal 35 #012H					
								Incident Number: nAPP2208844411					
								Job Number: 03A1987015					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Track-Hoe			
Coordinates: 32.079714,-103.951461								Hole Diameter: N/A		Total Depth: 4'			
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 factor included on chloride tests.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
Y	2,920	370.5	Y	PH05	0.5	0	SP	0-3', SAND, moist, dark brown, poorly graded, very fine-fine, dark brown staining, H-C odor.					
D	3,428	259.2	N		1	1		1-3', no staining, no odor.					
D	2,472	161.8	N		2	2		3-4', CALICHE, dry, tan-light brown, well graded with silt, well consolidated, fine-coarse, no staining, no odor.					
						3							
							CCHE						
D	1,332	84.2	N	PH05	4	4							
							TD	Total depth @ 4' bgs.					

								Sample Name: PH06		5/2/2022	
								Site Name: North Brushy Draw Federal 35 #012H			
								Incident Number: nAPP2208844411			
								Job Number: 03A1987015			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Track-Hoe	
Coordinates: 32.079714,-103.951461								Hole Diameter: N/A		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 factor included on chloride tests.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	1,332	427.8	Y	PH06	0.5	0	SW-SM	0-2', SAND, moist, tan-light brown, well graded with silt, fine, dark brown staining, H-C odor.			
D	1,476	63.3	N		1	1		1-2', no H-C odor			
D	1,080	34.8	N	PH06	2	2					
							TD	Total depth @ 2' bgs.			

								Sample Name: PH07		5/2/2022			
								Site Name: North Brushy Draw Federal 35 #012H					
								Incident Number: nAPP2208844411					
								Job Number: 03A1987015					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Track-Hoe			
Coordinates: 32.079714,-103.951461								Hole Diameter: N/A		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 factor included on chloride tests.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
M	<120	551.3	Y	PH07	0.5	0	SP-SM	0-2', SAND, moist, dark brown, poorly graded with silt, fine, dark brown staining, H-C odor.					
M	<120	682.2	Y		1	1		@2', dry.					
D	<120	122.8	N	PH07	2	2							
							TD	Total depth @ 2' bgs.					

								Sample Name: PH08		5/2/2022			
								Site Name: North Brushy Draw Federal 35 #012H					
								Incident Number: nAPP2208844411					
								Job Number: 03A1987015					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Track-Hoe			
Coordinates: 32.079714,-103.951461								Hole Diameter: N/A		Total Depth: 1'			
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 factor included on chloride tests.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
D	<120	0	N	PH08	0.5	0	SP	0-1', SAND, dry, dark brown, poorly graded, fine, no staining, no odor.					
D	<120	0.1	N	PH08	1	1	TD	Total depth @ 1' bgs.					

								Sample Name: PH09		5/2/2022			
								Site Name: North Brushy Draw Federal 35 #012H					
								Incident Number: nAPP2208844411					
								Job Number: 03A1987015					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Track-Hoe			
Coordinates: 32.079714,-103.951461								Hole Diameter: N/A		Total Depth: 1'			
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 factor included on chloride tests.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
D	<120	0.1	N	PH09	0.5	0	SP	0-1', SAND, dry, dark brown, poorly graded, fine, no staining, no odor.					
D	<120	0	N	PH09	1	1	TD	Total depth @ 1' bgs.					

								Sample Name: PH10		5/2/2022			
								Site Name: North Brushy Draw Federal 35 #012H					
								Incident Number: nAPP2208844411					
								Job Number: 03A1987015					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Track-Hoe			
Coordinates: 32.079714,-103.951461								Hole Diameter: N/A		Total Depth: 1'			
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 factor included on chloride tests.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
D	172	0.1	N	PH10	0.5	0	CCHE	0-1', CALICHE, dry, tan, well graded with silt, fine-coarse, trace subround-subangular gravel, no staining, no odor.					
D	<120	0.1	N	PH10	1	1	TD	Total depth @ 1' bgs.					

								Sample Name: PH11		5/2/2022	
								Site Name: North Brushy Draw Federal 35 #012H			
								Incident Number: nAPP2208844411			
								Job Number: 03A1987015			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Track-Hoe	
Coordinates: 32.079714,-103.951461								Hole Diameter: N/A		Total Depth: 1'	
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 factor included on chloride tests.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	172	0.1	N	PH11	0.5	0	CCHE	0-1', CALICHE, dry, tan, well graded with silt, fine-coarse, trace subround-subangular gravel, no staining, no odor.			
D	<120	0.1	N	PH11	1	1	TD	Total depth @ 1' bgs.			

								Sample Name: PH12		5/2/2022			
								Site Name: North Brushy Draw Federal 35 #012H					
								Incident Number: nAPP2208844411					
								Job Number: 03A1987015					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Track-Hoe			
Coordinates: 32.079714,-103.951461								Hole Diameter: N/A		Total Depth: 1'			
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 factor included on chloride tests.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
D	300	0	N	PH12	0.5	0	CCHE	0-1', CALICHE, dry, tan, well graded with silt, fine-coarse, trace subround-subangular gravel, no staining, no odor.					
D	<120	0.1	N	PH12	1	1	TD	Total depth @ 1' bgs.					

								Sample Name: PH13		5/2/2022			
								Site Name: North Brushy Draw Federal 35 #012H					
								Incident Number: nAPP2208844411					
								Job Number: 03A1987015					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Track-Hoe			
Coordinates: 32.079714,-103.951461								Hole Diameter: N/A		Total Depth: 1'			
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 factor included on chloride tests.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
D	<120	0.1	N	PH13	0.5	0	SP	0-1', SAND, dry, dark brown, poorly graded, very fine-fine, no staining, no odor.					
D	<120	0.1	N	PH13	1	1	TD	Total depth @ 1' bgs.					



APPENDIX D

Photographic Log

**Photographic Log**

WPX Energy Permian, LLC.

North Brushy 35 #012H

Incident Number nAPP2208844411

Ensolum Job Number: 03A1987015

**Photograph 1**

Date: March 23, 2022

Description: Initial Site Assessment

**Photograph 2**

Date: March 23, 2022

Description: Initial Site Assessment

**Photograph 3**

Date: March 23, 2022

Description: Initial Site Assessment

**Photograph 4**

Date: May 2, 2022

Description: Delineation activities.



Photographic Log

WPX Energy Permian, LLC.

North Brushy 35 #012H

Incident Number nAPP2208844411

Ensolum Job Number: 03A1987015



Photograph 5

Date: May 2, 2022

Description: Delineation activities.



Photograph 6

Date: May 24, 2022

Description: Excavation activities.



Photograph 7

Date: May 27, 2022

Description: Excavation activities.



Photograph 8

Date: May 27, 2022

Description: Excavation activities.



APPENDIX E

Tables



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 WPX Energy Permian, LLC - North Brushy Draw Federal 35 #012H
 Eddy County, New Mexico

Ensolum Project No. 03A1987015

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)
NMOC Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Sample Analytical Results										
PH01	05/02/2022	0.5	<0.00199	0.0853	<49.9	15,300	<250	15,300	15,300	1,650
PH01	05/02/2022	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	70.6
PH02	05/02/2022	0.5	<0.00200	0.0531	309	18,100	<250	18,409	18,400	354
PH02	05/02/2022	2	<0.00201	<0.00402	<49.9	52.3	<49.9	52.3	52.3	49.4
PH03	05/02/2022	0.5	<0.00200	<0.00401	<50.0	4,420	<50.0	4,420	4,420	25,300
PH03	05/02/2022	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	153
PH04	05/02/2022	0.5	<0.00199	<0.00398	<49.9	2,110	<49.9	2,110	2,110	6,690*
PH04	05/02/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,700
PH05	05/02/2022	0.5	<0.00200	0.0147	1,240	16,700	1,700	17,940	19,600	4,750*
PH05	05/02/2022	4	<0.00199	<0.00398	<49.8	64.8	<49.8	64.8	64.8	2,400
PH06	05/02/2022	0.5	<0.00199	0.00911	620	20,500	2,830	21,120	24,000	10,600*
PH06	05/02/2022	2	<0.00198	<0.00397	<49.9	74.7	<49.9	74.7	74.7	1,620
PH07	05/02/2022	0.5	<0.00199	0.387	4,260	52,100	6,910	56,360	63,300	42.7*
PH07	05/02/2022	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	4.99
PH08	05/02/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<5.04
PH08	05/02/2022	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	<4.98
PH09	05/02/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	<4.99
PH09	05/02/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	7.62
PH10	05/02/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	110
PH10	05/02/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	31.1
PH11	05/02/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	147
PH11	05/02/2022	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	29.9
PH12	05/02/2022	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	136
PH12	05/02/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	23.4
PH13	05/02/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.95
PH13	05/02/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	7.04
Excavation Soil Sample Analytical Results										
FS01	05/27/2022	4	<0.00199	<0.00398	<50.0	<50.0	50	<50.0	50	213
FS02	05/27/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	969



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 WPX Energy Permian, LLC - North Brushy Draw Federal 35 #012H
 Eddy County, New Mexico

Ensolum Project No. 03A1987015

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)
NMOC Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS03	05/27/2022	4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	13.2
FS04	05/27/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	9.6
FS05	05/27/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	44.6
FS06	05/27/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	88.7
FS07	05/27/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	51.2
FS08	05/27/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	24.1
FS09	06/01/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	36.5
FS10	06/01/2022	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	28.8
FS11	05/27/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	252
FS12	05/27/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	193
FS13	05/27/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	195
FS14	05/27/2022	1	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	277
FS15	05/26/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	117
FS16	05/26/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,050
FS17	05/26/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	597
FS18	05/26/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	96.8
FS19	05/26/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,510
FS20	05/26/2022	4	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	2,440
FS21	05/26/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	410
FS22	06/01/2022	4	<0.00200	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	43.2
FS23	06/01/2022	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	31.0
FS24	06/01/2022	4	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	41.8
FS25	06/01/2022	4	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	27.4
FS26	06/01/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	31.4
FS27	06/01/2022	4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	29.5
FS28	06/01/2022	4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	33.3
FS29	06/01/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	49.9
FS30	06/01/2022	4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	35.5
FS31	06/01/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	36.2
FS32	06/01/2022	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	46.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 WPX Energy Permian, LLC - North Brushy Draw Federal 35 #012H
 Eddy County, New Mexico

Ensolum Project No. 03A1987015

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)
NMOC Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS33	06/01/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	27.3
FS34	06/01/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	21.5
FS35	06/01/2022	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	208
FS36	06/01/2022	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	49.3
FS37	06/01/2022	2	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	52.8
FS38	06/01/2022	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	267
FS39	06/01/2022	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	322
FS40	06/01/2022	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	123
FS41	06/01/2022	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	113
FS42	06/01/2022	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	246
FS43	06/01/2022	2	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	191
FS44	06/01/2022	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	156
FS45	06/01/2022	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	110
FS46	06/01/2022	2	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	157
FS47	06/01/2022	2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	103
FS48	06/01/2022	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	24.9
FS49	06/01/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	96.2
FS50	06/01/2022	2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	69.9
FS51	06/01/2022	2	<0.00198	0.00480	<49.9	<49.9	<49.9	<49.9	<49.9	74.6
FS52	06/01/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	57.3
FS53	05/26/2022	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	352
FS54	05/26/2022	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	678
SW01	05/26/2022	0 - 4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	181
SW02	05/26/2022	0 - 4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	61.3
SW03	05/26/2022	0 - 4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	61.2
SW04	05/26/2022	0 - 4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	20.7
SW05	05/26/2022	0 - 4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	188
SW06	05/26/2022	0 - 4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	37.8
SW07	05/26/2022	0 - 4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	8.63
SW08	05/26/2022	0 - 4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	10.2



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 WPX Energy Permian, LLC - North Brushy Draw Federal 35 #012H
 Eddy County, New Mexico

Ensolum Project No. 03A1987015

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)
NMOCDD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW09	06/01/2022	0 - 4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	132
SW10	06/01/2022	0 - 4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	18.1
SW11	06/01/2022	0 - 4	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	38.0
SW12	06/01/2022	0 - 4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	29.2
SW13	06/01/2022	0 - 4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	35.3
SW14	06/01/2022	0 - 4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	20.2
SW15	06/01/2022	0 - 2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	28.1
SW16	06/01/2022	0 - 2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	118
SW17	06/01/2022	0 - 2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	72.3
SW18	06/01/2022	0 - 2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	47.8
SW19	06/01/2022	0 - 2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	46.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCDD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCDD Table 1 Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

Grey text indicate soil sample removed during excavation activities

* indicates soil in the top 4 feet of pasture to be reclaimed



APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2268-1

Laboratory Sample Delivery Group: Eddy County, NM
Client Project/Site: North Brushy Draw 35-12H

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Joseph Hernandez

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
5/13/2022 10:48:31 AM

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

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

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

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Laboratory Job ID: 890-2268-1
SDG: Eddy County, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	27
Lab Chronicle	32
Certification Summary	37
Method Summary	38
Sample Summary	39
Chain of Custody	40
Receipt Checklists	42

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Job ID: 890-2268-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-2268-1****Receipt**

The samples were received on 5/3/2022 8:13 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

One or more containers for the following samples were received broken or leaking: PH01 (890-2268-1), PH01 (890-2268-2), PH02 (890-2268-3), PH02 (890-2268-4), PH03 (890-2268-5), PH03 (890-2268-6), PH04 (890-2268-7), PH04 (890-2268-8), PH05 (890-2268-9), PH05 (890-2268-10), PH06 (890-2268-11), PH06 (890-2268-12), PH07 (890-2268-13) and PH07 (890-2268-14).

Sample jar # 13 became broken during being transfered into the cooler- we were able to save the sample and put it in a new jar.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25280 and analytical batch 880-25413 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.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-25279 and analytical batch 880-25476 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH01 (890-2268-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH01 (890-2268-1) and PH02 (890-2268-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-24835 and analytical batch 880-24860 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-24835 and analytical batch 880-24860 recovered outside control limits for the following analytes: <AffectedAnalytes>.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24816 and analytical batch 880-24926 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH01

Lab Sample ID: 890-2268-1

Date Collected: 05/02/22 09:15

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:49	05/13/22 02:28	1
Toluene	0.0689		0.00199		mg/Kg		05/10/22 13:49	05/13/22 02:28	1
Ethylbenzene	0.00327		0.00199		mg/Kg		05/10/22 13:49	05/13/22 02:28	1
m-Xylene & p-Xylene	0.0110		0.00398		mg/Kg		05/10/22 13:49	05/13/22 02:28	1
o-Xylene	0.00209		0.00199		mg/Kg		05/10/22 13:49	05/13/22 02:28	1
Xylenes, Total	0.0131		0.00398		mg/Kg		05/10/22 13:49	05/13/22 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	05/10/22 13:49	05/13/22 02:28	1
1,4-Difluorobenzene (Surr)	107		70 - 130	05/10/22 13:49	05/13/22 02:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0853		0.00398		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15300		250		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U *1	250		mg/Kg		05/05/22 11:19	05/06/22 07:51	5
Diesel Range Organics (Over C10-C28)	15300		250		mg/Kg		05/05/22 11:19	05/06/22 07:51	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		05/05/22 11:19	05/06/22 07:51	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	05/05/22 11:19	05/06/22 07:51	5
o-Terphenyl	113		70 - 130	05/05/22 11:19	05/06/22 07:51	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1650		25.2		mg/Kg			05/06/22 01:19	5

Client Sample ID: PH01

Lab Sample ID: 890-2268-2

Date Collected: 05/02/22 09:20

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:49	05/13/22 02:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:49	05/13/22 02:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:49	05/13/22 02:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/10/22 13:49	05/13/22 02:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:49	05/13/22 02:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 13:49	05/13/22 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/10/22 13:49	05/13/22 02:49	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH01

Lab Sample ID: 890-2268-2

Date Collected: 05/02/22 09:20

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	05/10/22 13:49	05/13/22 02:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		05/05/22 11:19	05/05/22 22:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/05/22 22:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/05/22 22:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				05/05/22 11:19	05/05/22 22:10	1
o-Terphenyl	98		70 - 130				05/05/22 11:19	05/05/22 22:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.6		5.04		mg/Kg			05/06/22 01:48	1

Client Sample ID: PH02

Lab Sample ID: 890-2268-3

Date Collected: 05/02/22 09:25

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:49	05/13/22 03:09	1
Toluene	0.0186		0.00200		mg/Kg		05/10/22 13:49	05/13/22 03:09	1
Ethylbenzene	0.00987		0.00200		mg/Kg		05/10/22 13:49	05/13/22 03:09	1
m-Xylene & p-Xylene	0.0182		0.00401		mg/Kg		05/10/22 13:49	05/13/22 03:09	1
o-Xylene	0.00642		0.00200		mg/Kg		05/10/22 13:49	05/13/22 03:09	1
Xylenes, Total	0.0246		0.00401		mg/Kg		05/10/22 13:49	05/13/22 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/10/22 13:49	05/13/22 03:09	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/10/22 13:49	05/13/22 03:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0531		0.00401		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18400		250		mg/Kg			05/06/22 11:03	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH02

Lab Sample ID: 890-2268-3

Date Collected: 05/02/22 09:25

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	309	*- *1	250		mg/Kg		05/05/22 11:19	05/06/22 08:12	5
Diesel Range Organics (Over C10-C28)	18100		250		mg/Kg		05/05/22 11:19	05/06/22 08:12	5
OII Range Organics (Over C28-C36)	<250	U	250		mg/Kg		05/05/22 11:19	05/06/22 08:12	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				05/05/22 11:19	05/06/22 08:12	5
o-Terphenyl	119		70 - 130				05/05/22 11:19	05/06/22 08:12	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	354		4.99		mg/Kg			05/06/22 08:21	1

Client Sample ID: PH02

Lab Sample ID: 890-2268-4

Date Collected: 05/02/22 09:30

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 2'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/10/22 13:49	05/13/22 03:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/10/22 13:49	05/13/22 03:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/10/22 13:49	05/13/22 03:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/10/22 13:49	05/13/22 03:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/10/22 13:49	05/13/22 03:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/10/22 13:49	05/13/22 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				05/10/22 13:49	05/13/22 03:30	1
1,4-Difluorobenzene (Surr)	107		70 - 130				05/10/22 13:49	05/13/22 03:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.3		49.9		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		05/05/22 11:19	05/05/22 23:57	1
Diesel Range Organics (Over C10-C28)	52.3		49.9		mg/Kg		05/05/22 11:19	05/05/22 23:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/05/22 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				05/05/22 11:19	05/05/22 23:57	1
o-Terphenyl	99		70 - 130				05/05/22 11:19	05/05/22 23:57	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH02

Lab Sample ID: 890-2268-4

Date Collected: 05/02/22 09:30

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 2'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.4		4.99		mg/Kg			05/06/22 09:27	1

Client Sample ID: PH03

Lab Sample ID: 890-2268-5

Date Collected: 05/02/22 09:45

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		05/10/22 13:55	05/13/22 03:47	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		05/10/22 13:55	05/13/22 03:47	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		05/10/22 13:55	05/13/22 03:47	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		05/10/22 13:55	05/13/22 03:47	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		05/10/22 13:55	05/13/22 03:47	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		05/10/22 13:55	05/13/22 03:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				05/10/22 13:55	05/13/22 03:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130				05/10/22 13:55	05/13/22 03:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4420		50.0		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		05/05/22 11:19	05/06/22 00:18	1
Diesel Range Organics (Over C10-C28)	4420		50.0		mg/Kg		05/05/22 11:19	05/06/22 00:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				05/05/22 11:19	05/06/22 00:18	1
o-Terphenyl	124		70 - 130				05/05/22 11:19	05/06/22 00:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25300		249		mg/Kg			05/06/22 09:36	50

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH03

Lab Sample ID: 890-2268-6

Date Collected: 05/02/22 09:50

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 2'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 04:07	1
Toluene	0.00262		0.00199		mg/Kg		05/10/22 13:55	05/13/22 04:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 04:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/10/22 13:55	05/13/22 04:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 04:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 13:55	05/13/22 04:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				05/10/22 13:55	05/13/22 04:07	1
1,4-Difluorobenzene (Surr)	101		70 - 130				05/10/22 13:55	05/13/22 04:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		05/05/22 11:19	05/06/22 00:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/06/22 00:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/06/22 00:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/05/22 11:19	05/06/22 00:39	1
o-Terphenyl	111		70 - 130				05/05/22 11:19	05/06/22 00:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		5.03		mg/Kg			05/06/22 09:45	1

Client Sample ID: PH04

Lab Sample ID: 890-2268-7

Date Collected: 05/02/22 09:55

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 04:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 04:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 04:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/10/22 13:55	05/13/22 04:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 04:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 13:55	05/13/22 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				05/10/22 13:55	05/13/22 04:28	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH04

Lab Sample ID: 890-2268-7

Date Collected: 05/02/22 09:55

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	05/10/22 13:55	05/13/22 04:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2110		49.9		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		05/05/22 11:19	05/06/22 01:00	1
Diesel Range Organics (Over C10-C28)	2110		49.9		mg/Kg		05/05/22 11:19	05/06/22 01:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/06/22 01:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				05/05/22 11:19	05/06/22 01:00	1
o-Terphenyl	127		70 - 130				05/05/22 11:19	05/06/22 01:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6690		49.7		mg/Kg			05/06/22 09:54	10

Client Sample ID: PH04

Lab Sample ID: 890-2268-8

Date Collected: 05/02/22 10:00

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 04:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 04:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 04:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/10/22 13:55	05/13/22 04:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 04:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 13:55	05/13/22 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	05/10/22 13:55	05/13/22 04:48	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/10/22 13:55	05/13/22 04:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/22 11:03	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH04

Lab Sample ID: 890-2268-8

Date Collected: 05/02/22 10:00

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		05/05/22 11:19	05/06/22 01:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 01:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				05/05/22 11:19	05/06/22 01:21	1
o-Terphenyl	111		70 - 130				05/05/22 11:19	05/06/22 01:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4700		50.5		mg/Kg			05/06/22 10:04	10

Client Sample ID: PH05

Lab Sample ID: 890-2268-9

Date Collected: 05/02/22 10:05

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 05:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 05:09	1
Ethylbenzene	0.00561		0.00200		mg/Kg		05/10/22 13:55	05/13/22 05:09	1
m-Xylene & p-Xylene	0.00912		0.00399		mg/Kg		05/10/22 13:55	05/13/22 05:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 05:09	1
Xylenes, Total	0.00912		0.00399		mg/Kg		05/10/22 13:55	05/13/22 05:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				05/10/22 13:55	05/13/22 05:09	1
1,4-Difluorobenzene (Surr)	82		70 - 130				05/10/22 13:55	05/13/22 05:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0147		0.00399		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19600		250		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1240	*+ *1	49.9		mg/Kg		05/04/22 15:21	05/05/22 19:43	1
Diesel Range Organics (Over C10-C28)	16700	*1	250		mg/Kg		05/04/22 15:21	05/06/22 07:56	5
Oil Range Organics (Over C28-C36)	1700		49.9		mg/Kg		05/04/22 15:21	05/05/22 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130				05/04/22 15:21	05/05/22 19:43	1
1-Chlorooctane	147	S1+	70 - 130				05/04/22 15:21	05/06/22 07:56	5

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH05

Lab Sample ID: 890-2268-9

Date Collected: 05/02/22 10:05

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	189	S1+	70 - 130	05/04/22 15:21	05/05/22 19:43	1
<i>o</i> -Terphenyl	148	S1+	70 - 130	05/04/22 15:21	05/06/22 07:56	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4750		50.0		mg/Kg			05/06/22 10:13	10

Client Sample ID: PH05

Lab Sample ID: 890-2268-10

Date Collected: 05/02/22 10:10

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 05:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 05:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 05:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/10/22 13:55	05/13/22 05:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 05:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 13:55	05/13/22 05:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				05/10/22 13:55	05/13/22 05:29	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/10/22 13:55	05/13/22 05:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.8		49.8		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+ *1	49.8		mg/Kg		05/04/22 15:21	05/05/22 17:57	1
Diesel Range Organics (Over C10-C28)	64.8	*1	49.8		mg/Kg		05/04/22 15:21	05/05/22 17:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/04/22 15:21	05/05/22 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				05/04/22 15:21	05/05/22 17:57	1
o-Terphenyl	102		70 - 130				05/04/22 15:21	05/05/22 17:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		25.2		mg/Kg			05/06/22 10:22	5

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH06

Lab Sample ID: 890-2268-11

Date Collected: 05/02/22 10:15

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 05:50	1
Toluene	0.00387		0.00199		mg/Kg		05/10/22 13:55	05/13/22 05:50	1
Ethylbenzene	0.00524		0.00199		mg/Kg		05/10/22 13:55	05/13/22 05:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/10/22 13:55	05/13/22 05:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 05:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 13:55	05/13/22 05:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	170	S1+	70 - 130	05/10/22 13:55	05/13/22 05:50	1
1,4-Difluorobenzene (Surr)	81		70 - 130	05/10/22 13:55	05/13/22 05:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00911		0.00398		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24000		250		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	620	*+ *1	50.0		mg/Kg		05/04/22 15:21	05/05/22 19:22	1
Diesel Range Organics (Over C10-C28)	20500	*1	250		mg/Kg		05/04/22 15:21	05/06/22 07:35	5
Oil Range Organics (Over C28-C36)	2830		50.0		mg/Kg		05/04/22 15:21	05/05/22 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	05/04/22 15:21	05/05/22 19:22	1
1-Chlorooctane	131	S1+	70 - 130	05/04/22 15:21	05/06/22 07:35	5
o-Terphenyl	280	S1+	70 - 130	05/04/22 15:21	05/05/22 19:22	1
o-Terphenyl	338	S1+	70 - 130	05/04/22 15:21	05/06/22 07:35	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10600	F1	100		mg/Kg			05/05/22 18:07	20

Client Sample ID: PH06

Lab Sample ID: 890-2268-12

Date Collected: 05/02/22 10:20

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 2'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/10/22 13:55	05/13/22 06:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/10/22 13:55	05/13/22 06:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/10/22 13:55	05/13/22 06:10	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/10/22 13:55	05/13/22 06:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/10/22 13:55	05/13/22 06:10	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/10/22 13:55	05/13/22 06:10	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH06

Lab Sample ID: 890-2268-12

Date Collected: 05/02/22 10:20

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 2'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	05/10/22 13:55	05/13/22 06:10	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/10/22 13:55	05/13/22 06:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.7		49.9		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ *1	49.9		mg/Kg		05/04/22 15:21	05/05/22 18:18	1
Diesel Range Organics (Over C10-C28)	74.7	*1	49.9		mg/Kg		05/04/22 15:21	05/05/22 18:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/22 15:21	05/05/22 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				05/04/22 15:21	05/05/22 18:18	1
o-Terphenyl	115		70 - 130				05/04/22 15:21	05/05/22 18:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		24.8		mg/Kg			05/05/22 18:34	5

Client Sample ID: PH07

Lab Sample ID: 890-2268-13

Date Collected: 05/02/22 10:25

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 06:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 06:30	1
Ethylbenzene	0.0404		0.00199		mg/Kg		05/10/22 13:55	05/13/22 06:30	1
m-Xylene & p-Xylene	0.191		0.00398		mg/Kg		05/10/22 13:55	05/13/22 06:30	1
o-Xylene	0.156		0.00199		mg/Kg		05/10/22 13:55	05/13/22 06:30	1
Xylenes, Total	0.347		0.00398		mg/Kg		05/10/22 13:55	05/13/22 06:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	495	S1+	70 - 130	05/10/22 13:55	05/13/22 06:30	1
1,4-Difluorobenzene (Surr)	75		70 - 130	05/10/22 13:55	05/13/22 06:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.387		0.00398		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63300		499		mg/Kg			05/06/22 11:03	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH07

Lab Sample ID: 890-2268-13

Date Collected: 05/02/22 10:25

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	4260	*+ *1	249		mg/Kg		05/04/22 15:21	05/05/22 19:01	5
Diesel Range Organics (Over C10-C28)	52100	*1	499		mg/Kg		05/04/22 15:21	05/06/22 07:15	10
Oil Range Organics (Over C28-C36)	6910		249		mg/Kg		05/04/22 15:21	05/05/22 19:01	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	228	S1+	70 - 130				05/04/22 15:21	05/05/22 19:01	5
1-Chlorooctane	247	S1+	70 - 130				05/04/22 15:21	05/06/22 07:15	10
o-Terphenyl	788	S1+	70 - 130				05/04/22 15:21	05/05/22 19:01	5
o-Terphenyl	849	S1+	70 - 130				05/04/22 15:21	05/06/22 07:15	10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.7		4.96		mg/Kg			05/05/22 18:44	1

Client Sample ID: PH07

Lab Sample ID: 890-2268-14

Date Collected: 05/02/22 10:30

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 06:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 06:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 06:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/10/22 13:55	05/13/22 06:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 06:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/10/22 13:55	05/13/22 06:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/10/22 13:55	05/13/22 06:51	1
1,4-Difluorobenzene (Surr)	94		70 - 130				05/10/22 13:55	05/13/22 06:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/13/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+ *1	49.8		mg/Kg		05/04/22 15:21	05/05/22 18:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		05/04/22 15:21	05/05/22 18:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/04/22 15:21	05/05/22 18:39	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH07
Date Collected: 05/02/22 10:30
Date Received: 05/03/22 08:13
Sample Depth: 2

Lab Sample ID: 890-2268-14
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	05/04/22 15:21	05/05/22 18:39	1
o-Terphenyl	96		70 - 130	05/04/22 15:21	05/05/22 18:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.99		4.95		mg/Kg			05/05/22 18:53	1

Surrogate Summary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

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)
880-14390-A-4-E MS	Matrix Spike	114	98
880-14390-A-4-F MSD	Matrix Spike Duplicate	92	106
890-2268-1	PH01	136 S1+	107
890-2268-2	PH01	104	108
890-2268-3	PH02	98	100
890-2268-4	PH02	101	107
890-2268-5	PH03	107	97
890-2268-5 MS	PH03	100	101
890-2268-5 MSD	PH03	52 S1-	101
890-2268-6	PH03	112	101
890-2268-7	PH04	103	99
890-2268-8	PH04	110	101
890-2268-9	PH05	124	82
890-2268-10	PH05	108	98
890-2268-11	PH06	170 S1+	81
890-2268-12	PH06	110	96
890-2268-13	PH07	495 S1+	75
890-2268-14	PH07	105	94
LCS 880-25279/1-A	Lab Control Sample	105	104
LCS 880-25280/1-A	Lab Control Sample	99	99
LCSD 880-25279/2-A	Lab Control Sample Dup	105	102
LCSD 880-25280/2-A	Lab Control Sample Dup	103	99
MB 880-25279/5-A	Method Blank	93	98
MB 880-25280/5-A	Method Blank	95	95
MB 880-25410/5-A	Method Blank	99	97

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)
890-2267-A-1-E MS	Matrix Spike	82	73
890-2267-A-1-F MSD	Matrix Spike Duplicate	83	74
890-2268-1	PH01	131 S1+	113
890-2268-2	PH01	92	98
890-2268-2 MS	PH01	88	89
890-2268-2 MSD	PH01	86	85
890-2268-3	PH02	132 S1+	119
890-2268-4	PH02	98	99
890-2268-5	PH03	113	124
890-2268-6	PH03	107	111
890-2268-7	PH04	117	127
890-2268-8	PH04	105	111
890-2268-9	PH05	146 S1+	189 S1+
890-2268-9	PH05	147 S1+	148 S1+

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Surrogate Summary

Client: Ensolum

Job ID: 890-2268-1

Project/Site: North Brushy Draw 35-12H

SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2268-10	PH05	98	102
890-2268-11	PH06	121	280 S1+
890-2268-11	PH06	131 S1+	338 S1+
890-2268-12	PH06	110	115
890-2268-13	PH07	228 S1+	788 S1+
890-2268-13	PH07	247 S1+	849 S1+
890-2268-14	PH07	93	96
LCS 880-24835/2-A	Lab Control Sample	121	119
LCS 880-24872/2-A	Lab Control Sample	101	104
LCSD 880-24835/3-A	Lab Control Sample Dup	106	99
LCSD 880-24872/3-A	Lab Control Sample Dup	113	117
MB 880-24835/1-A	Method Blank	116	126
MB 880-24872/1-A	Method Blank	90	99

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25279/5-A

Matrix: Solid

Analysis Batch: 25476

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:49	05/12/22 19:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:49	05/12/22 19:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:49	05/12/22 19:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/10/22 13:49	05/12/22 19:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:49	05/12/22 19:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/10/22 13:49	05/12/22 19:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	05/10/22 13:49	05/12/22 19:31	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/10/22 13:49	05/12/22 19:31	1

Lab Sample ID: LCS 880-25279/1-A

Matrix: Solid

Analysis Batch: 25476

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09308		mg/Kg		93	70 - 130
Toluene	0.100	0.09346		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1022		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2154		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1053		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-25279/2-A

Matrix: Solid

Analysis Batch: 25476

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25279

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08522		mg/Kg		85	70 - 130	9	35
Toluene	0.100	0.08397		mg/Kg		84	70 - 130	11	35
Ethylbenzene	0.100	0.08828		mg/Kg		88	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1875		mg/Kg		94	70 - 130	14	35
o-Xylene	0.100	0.09295		mg/Kg		93	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-14390-A-4-E MS

Matrix: Solid

Analysis Batch: 25476

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0998	0.06525	F1	mg/Kg		65	70 - 130
Toluene	<0.00200	U	0.0998	0.07114		mg/Kg		71	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-14390-A-4-E MS

Matrix: Solid

Analysis Batch: 25476

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.07910		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1707		mg/Kg		86	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08545		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-14390-A-4-F MSD

Matrix: Solid

Analysis Batch: 25476

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25279

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.08395		mg/Kg		84	70 - 130	25	35
Toluene	<0.00200	U	0.0994	0.07509		mg/Kg		76	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0994	0.07445		mg/Kg		75	70 - 130	6	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1499		mg/Kg		75	70 - 130	13	35
o-Xylene	<0.00200	U	0.0994	0.07442		mg/Kg		75	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-25280/5-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 03:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 03:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 03:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/10/22 13:55	05/13/22 03:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 03:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/10/22 13:55	05/13/22 03:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/10/22 13:55	05/13/22 03:18	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/10/22 13:55	05/13/22 03:18	1

Lab Sample ID: LCS 880-25280/1-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08000		mg/Kg		80	70 - 130
Toluene	0.100	0.08031		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.08009		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1673		mg/Kg		84	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-25280/1-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09217		mg/Kg		92	70 - 130

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

Lab Sample ID: LCSD 880-25280/2-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25280

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09257		mg/Kg		93	70 - 130	15	35
Toluene	0.100	0.09097		mg/Kg		91	70 - 130	12	35
Ethylbenzene	0.100	0.09250		mg/Kg		93	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1909		mg/Kg		95	70 - 130	13	35
o-Xylene	0.100	0.1050		mg/Kg		105	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-2268-5 MS

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: PH03

Prep Type: Total/NA

Prep Batch: 25280

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0998	0.06774	F1	mg/Kg		68	70 - 130
Toluene	<0.00200	U F1	0.0998	0.05854	F1	mg/Kg		58	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.04658	F1	mg/Kg		47	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.09248	F1	mg/Kg		46	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.04911	F1	mg/Kg		49	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-2268-5 MSD

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: PH03

Prep Type: Total/NA

Prep Batch: 25280

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0996	0.06807	F1	mg/Kg		68	70 - 130	0	35
Toluene	<0.00200	U F1	0.0996	0.05335	F1	mg/Kg		52	70 - 130	9	35
Ethylbenzene	<0.00200	U F1	0.0996	0.04085	F1	mg/Kg		41	70 - 130	13	35
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.07874	F1	mg/Kg		40	70 - 130	16	35
o-Xylene	<0.00200	U F1	0.0996	0.04152	F1	mg/Kg		42	70 - 130	17	35

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-2268-5 MSD

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: PH03

Prep Type: Total/NA

Prep Batch: 25280

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	52	S1-	70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-25410/5-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25410

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 15:39	1	
Toluene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 15:39	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 15:39	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/12/22 10:53	05/12/22 15:39	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 15:39	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/12/22 10:53	05/12/22 15:39	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		70 - 130				05/12/22 10:53	05/12/22 15:39	1	
1,4-Difluorobenzene (Surr)	97		70 - 130				05/12/22 10:53	05/12/22 15:39	1	

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

Lab Sample ID: MB 880-24835/1-A

Matrix: Solid

Analysis Batch: 24860

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24835

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/22 15:21	05/05/22 11:00	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/22 15:21	05/05/22 11:00	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/22 15:21	05/05/22 11:00	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	116		70 - 130				05/04/22 15:21	05/05/22 11:00	1	
o-Terphenyl	126		70 - 130				05/04/22 15:21	05/05/22 11:00	1	

Lab Sample ID: LCS 880-24835/2-A

Matrix: Solid

Analysis Batch: 24860

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24835

	Spike	LCS	LCS							
Analyte	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1318	*+	mg/Kg		132		70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1177		mg/Kg		118		70 - 130		
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	121		70 - 130							
o-Terphenyl	119		70 - 130							

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-24835/3-A

Matrix: Solid

Analysis Batch: 24860

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24835

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1039	*1	mg/Kg		104	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	1000	953.4	*1	mg/Kg		95	70 - 130	21	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
o-Terphenyl	99		70 - 130						

Lab Sample ID: 890-2267-A-1-E MS

Matrix: Solid

Analysis Batch: 24860

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U ** *1	1000	971.4		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U *1	1000	754.1		mg/Kg		73	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	73		70 - 130								

Lab Sample ID: 890-2267-A-1-F MSD

Matrix: Solid

Analysis Batch: 24860

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24835

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 ** *1	998	980.9		mg/Kg		94	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U *1	998	767.7		mg/Kg		75	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	83		70 - 130								
o-Terphenyl	74		70 - 130								

Lab Sample ID: MB 880-24872/1-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/05/22 21:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/05/22 21:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/05/22 21:06	1

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-24872/1-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24872

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	05/05/22 11:19	05/05/22 21:06	1
o-Terphenyl	99		70 - 130	05/05/22 11:19	05/05/22 21:06	1

Lab Sample ID: LCS 880-24872/2-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	973.5		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1047		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-24872/3-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24872

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	609.9	*- *1	mg/Kg		61	70 - 130	46	20
Diesel Range Organics (Over C10-C28)	1000	1073		mg/Kg		107	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 890-2268-2 MS

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 24872

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 *- *1	1000	823.4		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	878.5		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	89		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-2268-2 MSD

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 24872

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 *- *1	998	808.2		mg/Kg		78	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	843.1		mg/Kg		83	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	86		70 - 130								
o-Terphenyl	85		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24815/1-A

Matrix: Solid

Analysis Batch: 24888

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/05/22 22:43	1

Lab Sample ID: LCS 880-24815/2-A

Matrix: Solid

Analysis Batch: 24888

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.6		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-24815/3-A

Matrix: Solid

Analysis Batch: 24888

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.2		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-2268-1 MS

Matrix: Solid

Analysis Batch: 24888

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1650		1260	2947		mg/Kg		103	90 - 110

Lab Sample ID: 890-2268-1 MSD

Matrix: Solid

Analysis Batch: 24888

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1650		1260	2838		mg/Kg		94	90 - 110	4	20

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-24816/1-A

Matrix: Solid

Analysis Batch: 24926

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/05/22 17:39	1

Lab Sample ID: LCS 880-24816/2-A

Matrix: Solid

Analysis Batch: 24926

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.6		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-24816/3-A

Matrix: Solid

Analysis Batch: 24926

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	256.8		mg/Kg		103	90 - 110	4	20

Lab Sample ID: 890-2268-11 MS

Matrix: Solid

Analysis Batch: 24926

Client Sample ID: PH06

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10600	F1	5000	17200	F1	mg/Kg		131	90 - 110

Lab Sample ID: 890-2268-11 MSD

Matrix: Solid

Analysis Batch: 24926

Client Sample ID: PH06

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10600	F1	5000	16040		mg/Kg		108	90 - 110	7	20

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 25279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-1	PH01	Total/NA	Solid	5035	
890-2268-2	PH01	Total/NA	Solid	5035	
890-2268-3	PH02	Total/NA	Solid	5035	
890-2268-4	PH02	Total/NA	Solid	5035	
MB 880-25279/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25279/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25279/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14390-A-4-E MS	Matrix Spike	Total/NA	Solid	5035	
880-14390-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 25280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-5	PH03	Total/NA	Solid	5035	
890-2268-6	PH03	Total/NA	Solid	5035	
890-2268-7	PH04	Total/NA	Solid	5035	
890-2268-8	PH04	Total/NA	Solid	5035	
890-2268-9	PH05	Total/NA	Solid	5035	
890-2268-10	PH05	Total/NA	Solid	5035	
890-2268-11	PH06	Total/NA	Solid	5035	
890-2268-12	PH06	Total/NA	Solid	5035	
890-2268-13	PH07	Total/NA	Solid	5035	
890-2268-14	PH07	Total/NA	Solid	5035	
MB 880-25280/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25280/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25280/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2268-5 MS	PH03	Total/NA	Solid	5035	
890-2268-5 MSD	PH03	Total/NA	Solid	5035	

Prep Batch: 25410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25410/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 25413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-5	PH03	Total/NA	Solid	8021B	25280
890-2268-6	PH03	Total/NA	Solid	8021B	25280
890-2268-7	PH04	Total/NA	Solid	8021B	25280
890-2268-8	PH04	Total/NA	Solid	8021B	25280
890-2268-9	PH05	Total/NA	Solid	8021B	25280
890-2268-10	PH05	Total/NA	Solid	8021B	25280
890-2268-11	PH06	Total/NA	Solid	8021B	25280
890-2268-12	PH06	Total/NA	Solid	8021B	25280
890-2268-13	PH07	Total/NA	Solid	8021B	25280
890-2268-14	PH07	Total/NA	Solid	8021B	25280
MB 880-25280/5-A	Method Blank	Total/NA	Solid	8021B	25280
MB 880-25410/5-A	Method Blank	Total/NA	Solid	8021B	25410
LCS 880-25280/1-A	Lab Control Sample	Total/NA	Solid	8021B	25280
LCSD 880-25280/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25280
890-2268-5 MS	PH03	Total/NA	Solid	8021B	25280
890-2268-5 MSD	PH03	Total/NA	Solid	8021B	25280

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 25476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-1	PH01	Total/NA	Solid	8021B	25279
890-2268-2	PH01	Total/NA	Solid	8021B	25279
890-2268-3	PH02	Total/NA	Solid	8021B	25279
890-2268-4	PH02	Total/NA	Solid	8021B	25279
MB 880-25279/5-A	Method Blank	Total/NA	Solid	8021B	25279
LCS 880-25279/1-A	Lab Control Sample	Total/NA	Solid	8021B	25279
LCSD 880-25279/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25279
880-14390-A-4-E MS	Matrix Spike	Total/NA	Solid	8021B	25279
880-14390-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25279

Analysis Batch: 25523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-1	PH01	Total/NA	Solid	Total BTEX	
890-2268-2	PH01	Total/NA	Solid	Total BTEX	
890-2268-3	PH02	Total/NA	Solid	Total BTEX	
890-2268-4	PH02	Total/NA	Solid	Total BTEX	
890-2268-5	PH03	Total/NA	Solid	Total BTEX	
890-2268-6	PH03	Total/NA	Solid	Total BTEX	
890-2268-7	PH04	Total/NA	Solid	Total BTEX	
890-2268-8	PH04	Total/NA	Solid	Total BTEX	
890-2268-9	PH05	Total/NA	Solid	Total BTEX	
890-2268-10	PH05	Total/NA	Solid	Total BTEX	
890-2268-11	PH06	Total/NA	Solid	Total BTEX	
890-2268-12	PH06	Total/NA	Solid	Total BTEX	
890-2268-13	PH07	Total/NA	Solid	Total BTEX	
890-2268-14	PH07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-9	PH05	Total/NA	Solid	8015NM Prep	
890-2268-10	PH05	Total/NA	Solid	8015NM Prep	
890-2268-11	PH06	Total/NA	Solid	8015NM Prep	
890-2268-12	PH06	Total/NA	Solid	8015NM Prep	
890-2268-13	PH07	Total/NA	Solid	8015NM Prep	
890-2268-14	PH07	Total/NA	Solid	8015NM Prep	
MB 880-24835/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24835/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24835/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2267-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2267-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-1	PH01	Total/NA	Solid	8015B NM	24872
890-2268-2	PH01	Total/NA	Solid	8015B NM	24872
890-2268-3	PH02	Total/NA	Solid	8015B NM	24872
890-2268-4	PH02	Total/NA	Solid	8015B NM	24872
890-2268-5	PH03	Total/NA	Solid	8015B NM	24872
890-2268-6	PH03	Total/NA	Solid	8015B NM	24872

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 24856 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-7	PH04	Total/NA	Solid	8015B NM	24872
890-2268-8	PH04	Total/NA	Solid	8015B NM	24872
MB 880-24872/1-A	Method Blank	Total/NA	Solid	8015B NM	24872
LCS 880-24872/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24872
LCSD 880-24872/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24872
890-2268-2 MS	PH01	Total/NA	Solid	8015B NM	24872
890-2268-2 MSD	PH01	Total/NA	Solid	8015B NM	24872

Analysis Batch: 24860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-9	PH05	Total/NA	Solid	8015B NM	24835
890-2268-9	PH05	Total/NA	Solid	8015B NM	24835
890-2268-10	PH05	Total/NA	Solid	8015B NM	24835
890-2268-11	PH06	Total/NA	Solid	8015B NM	24835
890-2268-11	PH06	Total/NA	Solid	8015B NM	24835
890-2268-12	PH06	Total/NA	Solid	8015B NM	24835
890-2268-13	PH07	Total/NA	Solid	8015B NM	24835
890-2268-13	PH07	Total/NA	Solid	8015B NM	24835
890-2268-14	PH07	Total/NA	Solid	8015B NM	24835
MB 880-24835/1-A	Method Blank	Total/NA	Solid	8015B NM	24835
LCS 880-24835/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24835
LCSD 880-24835/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24835
890-2267-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	24835
890-2267-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24835

Prep Batch: 24872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-1	PH01	Total/NA	Solid	8015NM Prep	
890-2268-2	PH01	Total/NA	Solid	8015NM Prep	
890-2268-3	PH02	Total/NA	Solid	8015NM Prep	
890-2268-4	PH02	Total/NA	Solid	8015NM Prep	
890-2268-5	PH03	Total/NA	Solid	8015NM Prep	
890-2268-6	PH03	Total/NA	Solid	8015NM Prep	
890-2268-7	PH04	Total/NA	Solid	8015NM Prep	
890-2268-8	PH04	Total/NA	Solid	8015NM Prep	
MB 880-24872/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24872/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24872/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2268-2 MS	PH01	Total/NA	Solid	8015NM Prep	
890-2268-2 MSD	PH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-1	PH01	Total/NA	Solid	8015 NM	
890-2268-2	PH01	Total/NA	Solid	8015 NM	
890-2268-3	PH02	Total/NA	Solid	8015 NM	
890-2268-4	PH02	Total/NA	Solid	8015 NM	
890-2268-5	PH03	Total/NA	Solid	8015 NM	
890-2268-6	PH03	Total/NA	Solid	8015 NM	
890-2268-7	PH04	Total/NA	Solid	8015 NM	
890-2268-8	PH04	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 24958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-9	PH05	Total/NA	Solid	8015 NM	
890-2268-10	PH05	Total/NA	Solid	8015 NM	
890-2268-11	PH06	Total/NA	Solid	8015 NM	
890-2268-12	PH06	Total/NA	Solid	8015 NM	
890-2268-13	PH07	Total/NA	Solid	8015 NM	
890-2268-14	PH07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-1	PH01	Soluble	Solid	DI Leach	
890-2268-2	PH01	Soluble	Solid	DI Leach	
890-2268-3	PH02	Soluble	Solid	DI Leach	
890-2268-4	PH02	Soluble	Solid	DI Leach	
890-2268-5	PH03	Soluble	Solid	DI Leach	
890-2268-6	PH03	Soluble	Solid	DI Leach	
890-2268-7	PH04	Soluble	Solid	DI Leach	
890-2268-8	PH04	Soluble	Solid	DI Leach	
890-2268-9	PH05	Soluble	Solid	DI Leach	
890-2268-10	PH05	Soluble	Solid	DI Leach	
MB 880-24815/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24815/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24815/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2268-1 MS	PH01	Soluble	Solid	DI Leach	
890-2268-1 MSD	PH01	Soluble	Solid	DI Leach	

Leach Batch: 24816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-11	PH06	Soluble	Solid	DI Leach	
890-2268-12	PH06	Soluble	Solid	DI Leach	
890-2268-13	PH07	Soluble	Solid	DI Leach	
890-2268-14	PH07	Soluble	Solid	DI Leach	
MB 880-24816/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24816/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24816/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2268-11 MS	PH06	Soluble	Solid	DI Leach	
890-2268-11 MSD	PH06	Soluble	Solid	DI Leach	

Analysis Batch: 24888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-1	PH01	Soluble	Solid	300.0	24815
890-2268-2	PH01	Soluble	Solid	300.0	24815
890-2268-3	PH02	Soluble	Solid	300.0	24815
890-2268-4	PH02	Soluble	Solid	300.0	24815
890-2268-5	PH03	Soluble	Solid	300.0	24815
890-2268-6	PH03	Soluble	Solid	300.0	24815
890-2268-7	PH04	Soluble	Solid	300.0	24815
890-2268-8	PH04	Soluble	Solid	300.0	24815
890-2268-9	PH05	Soluble	Solid	300.0	24815
890-2268-10	PH05	Soluble	Solid	300.0	24815

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 24888 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-24815/1-A	Method Blank	Soluble	Solid	300.0	24815
LCS 880-24815/2-A	Lab Control Sample	Soluble	Solid	300.0	24815
LCSD 880-24815/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24815
890-2268-1 MS	PH01	Soluble	Solid	300.0	24815
890-2268-1 MSD	PH01	Soluble	Solid	300.0	24815

Analysis Batch: 24926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2268-11	PH06	Soluble	Solid	300.0	24816
890-2268-12	PH06	Soluble	Solid	300.0	24816
890-2268-13	PH07	Soluble	Solid	300.0	24816
890-2268-14	PH07	Soluble	Solid	300.0	24816
MB 880-24816/1-A	Method Blank	Soluble	Solid	300.0	24816
LCS 880-24816/2-A	Lab Control Sample	Soluble	Solid	300.0	24816
LCSD 880-24816/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24816
890-2268-11 MS	PH06	Soluble	Solid	300.0	24816
890-2268-11 MSD	PH06	Soluble	Solid	300.0	24816

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH01

Lab Sample ID: 890-2268-1

Date Collected: 05/02/22 09:15

Matrix: Solid

Date Received: 05/03/22 08:13

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	25279	05/10/22 13:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25476	05/13/22 02:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		5			24856	05/06/22 07:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	24815	05/04/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		5			24888	05/06/22 01:19	CH	XEN MID

Client Sample ID: PH01

Lab Sample ID: 890-2268-2

Date Collected: 05/02/22 09:20

Matrix: Solid

Date Received: 05/03/22 08:13

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	25279	05/10/22 13:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25476	05/13/22 02:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 22:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24815	05/04/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		1			24888	05/06/22 01:48	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-2268-3

Date Collected: 05/02/22 09:25

Matrix: Solid

Date Received: 05/03/22 08:13

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	25279	05/10/22 13:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25476	05/13/22 03:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		5			24856	05/06/22 08:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24815	05/04/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		1			24888	05/06/22 08:21	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-2268-4

Date Collected: 05/02/22 09:30

Matrix: Solid

Date Received: 05/03/22 08:13

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	25279	05/10/22 13:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25476	05/13/22 03:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH02

Lab Sample ID: 890-2268-4

Date Collected: 05/02/22 09:30

Matrix: Solid

Date Received: 05/03/22 08:13

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			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 23:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24815	05/04/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		1			24888	05/06/22 09:27	CH	XEN MID

Client Sample ID: PH03

Lab Sample ID: 890-2268-5

Date Collected: 05/02/22 09:45

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 03:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 00:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24815	05/04/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		50			24888	05/06/22 09:36	CH	XEN MID

Client Sample ID: PH03

Lab Sample ID: 890-2268-6

Date Collected: 05/02/22 09:50

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 04:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 00:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	24815	05/04/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		1			24888	05/06/22 09:45	CH	XEN MID

Client Sample ID: PH04

Lab Sample ID: 890-2268-7

Date Collected: 05/02/22 09:55

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 04:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 01:00	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH04

Date Collected: 05/02/22 09:55

Date Received: 05/03/22 08:13

Lab Sample ID: 890-2268-7

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			5.03 g	50 mL	24815	05/04/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		10			24888	05/06/22 09:54	CH	XEN MID

Client Sample ID: PH04

Date Collected: 05/02/22 10:00

Date Received: 05/03/22 08:13

Lab Sample ID: 890-2268-8

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			5.03 g	5 mL	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 04:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 01:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	24815	05/04/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		10			24888	05/06/22 10:04	CH	XEN MID

Client Sample ID: PH05

Date Collected: 05/02/22 10:05

Date Received: 05/03/22 08:13

Lab Sample ID: 890-2268-9

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			5.01 g	5 mL	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 05:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24835	05/04/22 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24860	05/05/22 19:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24835	05/04/22 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		5			24860	05/06/22 07:56	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24815	05/04/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		10			24888	05/06/22 10:13	CH	XEN MID

Client Sample ID: PH05

Date Collected: 05/02/22 10:10

Date Received: 05/03/22 08:13

Lab Sample ID: 890-2268-10

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			5.02 g	5 mL	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 05:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	24835	05/04/22 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24860	05/05/22 17:57	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH05

Lab Sample ID: 890-2268-10

Date Collected: 05/02/22 10:10

Matrix: Solid

Date Received: 05/03/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	24815	05/04/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		5			24888	05/06/22 10:22	CH	XEN MID

Client Sample ID: PH06

Lab Sample ID: 890-2268-11

Date Collected: 05/02/22 10:15

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 05:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24835	05/04/22 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24860	05/05/22 19:22	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24835	05/04/22 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		5			24860	05/06/22 07:35	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		20			24926	05/05/22 18:07	CH	XEN MID

Client Sample ID: PH06

Lab Sample ID: 890-2268-12

Date Collected: 05/02/22 10:20

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 06:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24835	05/04/22 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24860	05/05/22 18:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		5			24926	05/05/22 18:34	CH	XEN MID

Client Sample ID: PH07

Lab Sample ID: 890-2268-13

Date Collected: 05/02/22 10:25

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 06:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24835	05/04/22 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		5			24860	05/05/22 19:01	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Client Sample ID: PH07
Date Collected: 05/02/22 10:25
Date Received: 05/03/22 08:13

Lab Sample ID: 890-2268-13
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	8015NM Prep			10.03 g	10 mL	24835	05/04/22 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		10			24860	05/06/22 07:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 18:44	CH	XEN MID

Client Sample ID: PH07
Date Collected: 05/02/22 10:30
Date Received: 05/03/22 08:13

Lab Sample ID: 890-2268-14
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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 06:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25523	05/13/22 10:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24958	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	24835	05/04/22 15:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24860	05/05/22 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 18:53	CH	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: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

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

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

Method Summary

Client: Ensolum

Project/Site: North Brushy Draw 35-12H

Job ID: 890-2268-1

SDG: Eddy County, NM

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: North Brushy Draw 35-12H

Job ID: 890-2268-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2268-1	PH01	Solid	05/02/22 09:15	05/03/22 08:13	0.5"
890-2268-2	PH01	Solid	05/02/22 09:20	05/03/22 08:13	2
890-2268-3	PH02	Solid	05/02/22 09:25	05/03/22 08:13	0.5'
890-2268-4	PH02	Solid	05/02/22 09:30	05/03/22 08:13	2'
890-2268-5	PH03	Solid	05/02/22 09:45	05/03/22 08:13	0.5'
890-2268-6	PH03	Solid	05/02/22 09:50	05/03/22 08:13	2'
890-2268-7	PH04	Solid	05/02/22 09:55	05/03/22 08:13	0.5'
890-2268-8	PH04	Solid	05/02/22 10:00	05/03/22 08:13	4'
890-2268-9	PH05	Solid	05/02/22 10:05	05/03/22 08:13	0.5'
890-2268-10	PH05	Solid	05/02/22 10:10	05/03/22 08:13	4'
890-2268-11	PH06	Solid	05/02/22 10:15	05/03/22 08:13	0.5'
890-2268-12	PH06	Solid	05/02/22 10:20	05/03/22 08:13	2'
890-2268-13	PH07	Solid	05/02/22 10:25	05/03/22 08:13	0.5'
890-2268-14	PH07	Solid	05/02/22 10:30	05/03/22 08:13	2

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

Environment Testing
Xenco

Work Order No: _____

www.xenco.com Page 1 of 2

Work Order Comments

Program: ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

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

Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Manager: Ben Bellill
Company Name: Ensolum
Address: 3122 National Parks HWY
City, State ZIP: Carlsbad, NM 88220
Phone: 969-854-0852
Bill to: (if different) Jim Raley
Company Name: WPX
Address: 5315 Buena Vista Dr.
City, State ZIP: Carlsbad, NM 88220
Email: BBellill@Ensolum.com

Project Name: North Brushy Draw 35-12H		Turn Around		Pres. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number:	03A1987015	☒ Routine	☐ Rush	Due Date:	5/24/21	Parameters		None: NO	DI Water: H ₂ O
Project Location:	Eddy County, NM	Wet Ice:		Thermometer ID:		Correction Factor:		Cool: Cool	MeOH: Me
Sampler's Name:	Gilbert Moreno	Temp Blank:		Yes No		Temperature Reading:		HCL: HC	HNO ₃ : HN
CC #:	104118350	Yes No		Yes No		Corrected Temperature:		H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT Samples Received Intact: ☒ Yes ☐ No Cooler Custody Seals: ☒ Yes ☐ No Sample Custody Seals: ☒ Yes ☐ No Total Containers: 2-0									
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
PH01	S	5.2.22	9:15	0.5'	Comp	1	X	X	X
PH01	S	5.2.22	9:20	2'	Comp	1	X	X	X
PH02	S	5.2.22	9:25	0.5'	Comp	1	X	X	X
PH02	S	5.2.22	9:30	2'	Comp	1	X	X	X
PH03	S	5.2.22	9:45	0.5'	Comp	1	X	X	X
PH03	S	5.2.22	9:50	2'	Comp	1	X	X	X
PH04	S	5.2.22	9:55	0.5'	Comp	1	X	X	X
PH04	S	5.2.22	10:00	4'	Comp	1	X	X	X
PH05	S	5.2.22	10:05	0.5'	Comp	1	X	X	X
PH05	S	5.2.22	10:10	4'	Comp	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 SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 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 \$65.00 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 <i>Ben Bellill</i>	<i>Jim Raley</i>	5-3-22 0813 ²			
3		4			
5		6			

Revised Date 08/25/2020 Rev. 2020.2

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:

Page 2 of 2
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Environment Testing
Xenco



Project Manager: Ben Belli		Bill to: (if different) Jim Raley	
Company Name: Ensolum		Company Name: WPX	
Address: 3122 National Parks HWY		Address: 5315 Buena Vista Dr.	
City, State ZIP: Carlsbad, NM 88220		City, State ZIP: Carlsbad, NM 88220	
Phone: 969-854-0852		Email: BBelli@Ensolum.com	

Project Name: North Brushy Draw 35-12H		Turn Around		Pres. Code	
Project Number: 03A1987015		☒ Routine ☐ Rush			
Project Location: Eddy County, NM		Due Date: 5 DAY			
Sampler's Name: Gilbert Moreno		TAT starts the day received by the lab, if received by 4:30pm			
CC #: 1061183501					

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont
PH06	S	5.2.22	10:15	0.5'	Comp	1
PH06	S	5.2.22	10:20	2'	Comp	1
PH07	S	5.2.22	10:25	0.5'	Comp	1
PH07	S	5.2.22	10:30	2'	Comp	1

Parameters									
CHLORIDES (EPA: 300.0)									
TFH (8015)									
BTEX (8021)									

ANALYSIS REQUEST									
Preservative Codes									
None: NO DI Water: H ₂ O									
Cool: Cool MeOH: Me									
HCL: HC HNO ₃ : HN									
H ₂ SO ₄ : H ₂ NaOH: Na									
H ₃ PO ₄ : HP									
NaHSO ₄ : NABIS									
Na ₂ S ₂ O ₃ : NaSO ₃									
Zn Acetate+NaOH: Zn									
NaOH+Ascorbic Acid: SAPC									
Sample Comments									
Incident ID									
nAPP2208844411									

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 Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471	

Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
C. Belli		C. Belli		5-3-22 0813	

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 for 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.

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2268-1
SDG Number: Eddy County, NMLogin Number: 2268
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: 890-2268-1
SDG Number: Eddy County, NMLogin Number: 2268
List Number: 2
Creator: Teel, BriannaList Source: Eurofins Midland
List Creation: 05/04/22 10:56 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2269-1

Laboratory Sample Delivery Group: Eddy County, NM
Client Project/Site: North Brushy Draw 35-12H

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Joseph Hernandez

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
5/13/2022 1:28:12 PM

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

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

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

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Laboratory Job ID: 890-2269-1
SDG: Eddy County, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	15
QC Sample Results	17
QC Association Summary	25
Lab Chronicle	29
Certification Summary	33
Method Summary	34
Sample Summary	35
Chain of Custody	36
Receipt Checklists	38

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Job ID: 890-2269-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-2269-1****Receipt**

The samples were received on 5/3/2022 8:13 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25280 and analytical batch 880-25413 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.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25411 and analytical batch 880-25377 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

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH10 (890-2269-6). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH13 (890-2269-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH08

Lab Sample ID: 890-2269-1

Date Collected: 05/02/22 10:35

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 08:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 08:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 08:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/10/22 13:55	05/13/22 08:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:55	05/13/22 08:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 13:55	05/13/22 08:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	05/10/22 13:55	05/13/22 08:41	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/10/22 13:55	05/13/22 08:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/13/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		05/05/22 11:19	05/06/22 01:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/06/22 01:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/06/22 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	05/05/22 11:19	05/06/22 01:42	1
o-Terphenyl	98		70 - 130	05/05/22 11:19	05/06/22 01:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			05/05/22 19:02	1

Client Sample ID: PH08

Lab Sample ID: 890-2269-2

Date Collected: 05/02/22 10:40

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 09:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 09:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 09:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/10/22 13:55	05/13/22 09:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 09:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/10/22 13:55	05/13/22 09:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	05/10/22 13:55	05/13/22 09:02	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH08

Lab Sample ID: 890-2269-2

Date Collected: 05/02/22 10:40

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	05/10/22 13:55	05/13/22 09:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/13/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		05/05/22 11:19	05/06/22 02:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 02:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 02:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				05/05/22 11:19	05/06/22 02:03	1
o-Terphenyl	106		70 - 130				05/05/22 11:19	05/06/22 02:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			05/05/22 19:30	1

Client Sample ID: PH09

Lab Sample ID: 890-2269-3

Date Collected: 05/02/22 10:45

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/10/22 13:55	05/13/22 09:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/10/22 13:55	05/13/22 09:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/10/22 13:55	05/13/22 09:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/10/22 13:55	05/13/22 09:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/10/22 13:55	05/13/22 09:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/10/22 13:55	05/13/22 09:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	05/10/22 13:55	05/13/22 09:22	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/10/22 13:55	05/13/22 09:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/13/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/06/22 11:03	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH09

Lab Sample ID: 890-2269-3

Date Collected: 05/02/22 10:45

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		05/05/22 11:19	05/06/22 02:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/06/22 02:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/06/22 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				05/05/22 11:19	05/06/22 02:45	1
o-Terphenyl	97		70 - 130				05/05/22 11:19	05/06/22 02:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			05/05/22 19:39	1

Client Sample ID: PH09

Lab Sample ID: 890-2269-4

Date Collected: 05/02/22 10:50

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 09:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 09:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 09:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/10/22 13:55	05/13/22 09:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 09:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/10/22 13:55	05/13/22 09:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				05/10/22 13:55	05/13/22 09:43	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/10/22 13:55	05/13/22 09:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/13/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		05/05/22 11:19	05/06/22 03:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 03:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 03:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				05/05/22 11:19	05/06/22 03:07	1
o-Terphenyl	99		70 - 130				05/05/22 11:19	05/06/22 03:07	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH09

Lab Sample ID: 890-2269-4

Date Collected: 05/02/22 10:50

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 1'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.62		4.95		mg/Kg			05/05/22 19:48	1

Client Sample ID: PH10

Lab Sample ID: 890-2269-5

Date Collected: 05/02/22 10:55

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 10:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 10:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 10:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/10/22 13:55	05/13/22 10:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 10:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/10/22 13:55	05/13/22 10:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				05/10/22 13:55	05/13/22 10:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/10/22 13:55	05/13/22 10:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/13/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		05/05/22 11:19	05/06/22 03:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 03:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/05/22 11:19	05/06/22 03:28	1
o-Terphenyl	107		70 - 130				05/05/22 11:19	05/06/22 03:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		5.05		mg/Kg			05/05/22 19:57	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH10

Lab Sample ID: 890-2269-6

Date Collected: 05/02/22 11:00

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 10:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 10:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 10:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/10/22 13:55	05/13/22 10:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 10:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/10/22 13:55	05/13/22 10:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/10/22 13:55	05/13/22 10:24	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/10/22 13:55	05/13/22 10:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/13/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *. *1	50.0		mg/Kg		05/05/22 11:19	05/06/22 03:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 03:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	05/05/22 11:19	05/06/22 03:49	1
o-Terphenyl	132	S1+	70 - 130	05/05/22 11:19	05/06/22 03:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.1		4.99		mg/Kg			05/05/22 20:06	1

Client Sample ID: PH11

Lab Sample ID: 890-2269-7

Date Collected: 05/02/22 11:05

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 10:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 10:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 10:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/10/22 13:55	05/13/22 10:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 10:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/10/22 13:55	05/13/22 10:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	05/10/22 13:55	05/13/22 10:44	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH11

Lab Sample ID: 890-2269-7

Date Collected: 05/02/22 11:05

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	05/10/22 13:55	05/13/22 10:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/13/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		05/05/22 11:19	05/06/22 04:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 04:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				05/05/22 11:19	05/06/22 04:10	1
o-Terphenyl	100		70 - 130				05/05/22 11:19	05/06/22 04:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		5.05		mg/Kg			05/05/22 20:16	1

Client Sample ID: PH11

Lab Sample ID: 890-2269-8

Date Collected: 05/02/22 11:10

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 11:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 11:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 11:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/10/22 13:55	05/13/22 11:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 11:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/10/22 13:55	05/13/22 11:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/10/22 13:55	05/13/22 11:05	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/10/22 13:55	05/13/22 11:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/13/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/06/22 11:03	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH11

Lab Sample ID: 890-2269-8

Date Collected: 05/02/22 11:10

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		05/05/22 11:19	05/06/22 04:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/06/22 04:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/06/22 04:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				05/05/22 11:19	05/06/22 04:31	1
o-Terphenyl	98		70 - 130				05/05/22 11:19	05/06/22 04:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.9		4.98		mg/Kg			05/05/22 20:43	1

Client Sample ID: PH12

Lab Sample ID: 890-2269-9

Date Collected: 05/02/22 11:15

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/10/22 13:55	05/13/22 11:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/10/22 13:55	05/13/22 11:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/10/22 13:55	05/13/22 11:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/10/22 13:55	05/13/22 11:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/10/22 13:55	05/13/22 11:25	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/10/22 13:55	05/13/22 11:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				05/10/22 13:55	05/13/22 11:25	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/10/22 13:55	05/13/22 11:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/13/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/07/22 00:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/07/22 00:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/07/22 00:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				05/05/22 14:19	05/07/22 00:15	1
o-Terphenyl	128		70 - 130				05/05/22 14:19	05/07/22 00:15	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH12

Lab Sample ID: 890-2269-9

Date Collected: 05/02/22 11:15

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		4.95		mg/Kg			05/05/22 20:52	1

Client Sample ID: PH12

Lab Sample ID: 890-2269-10

Date Collected: 05/02/22 11:20

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 11:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/10/22 13:55	05/13/22 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 11:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/10/22 13:55	05/13/22 11:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				05/10/22 13:55	05/13/22 11:46	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/10/22 13:55	05/13/22 11:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/13/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/07/22 00:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/07/22 00:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/07/22 00:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				05/05/22 14:19	05/07/22 00:35	1
o-Terphenyl	124		70 - 130				05/05/22 14:19	05/07/22 00:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.4		4.97		mg/Kg			05/05/22 21:20	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH13

Lab Sample ID: 890-2269-11

Date Collected: 05/02/22 11:25

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/12/22 11:01	05/13/22 06:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/12/22 11:01	05/13/22 06:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/12/22 11:01	05/13/22 06:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/12/22 11:01	05/13/22 06:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/12/22 11:01	05/13/22 06:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/12/22 11:01	05/13/22 06:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	05/12/22 11:01	05/13/22 06:24	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/12/22 11:01	05/13/22 06:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/13/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/07/22 00:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/07/22 00:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/07/22 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	05/05/22 14:19	05/07/22 00:56	1
o-Terphenyl	131	S1+	70 - 130	05/05/22 14:19	05/07/22 00:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			05/05/22 21:29	1

Client Sample ID: PH13

Lab Sample ID: 890-2269-12

Date Collected: 05/02/22 11:30

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/12/22 11:01	05/13/22 06:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/12/22 11:01	05/13/22 06:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/12/22 11:01	05/13/22 06:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/12/22 11:01	05/13/22 06:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/12/22 11:01	05/13/22 06:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/12/22 11:01	05/13/22 06:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	05/12/22 11:01	05/13/22 06:45	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH13

Lab Sample ID: 890-2269-12

Date Collected: 05/02/22 11:30

Matrix: Solid

Date Received: 05/03/22 08:13

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	05/12/22 11:01	05/13/22 06:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/13/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/22 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/07/22 01:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/07/22 01:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/07/22 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				05/05/22 14:19	05/07/22 01:17	1
o-Terphenyl	127		70 - 130				05/05/22 14:19	05/07/22 01:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.04		4.95		mg/Kg			05/05/22 21:38	1

Surrogate Summary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

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				
880-14720-A-1-A MS	Matrix Spike				
880-14720-A-1-B MSD	Matrix Spike Duplicate				
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DFBZ = 1,4-Difluorobenzene (Surr)					

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-2268-A-5-C MS	Matrix Spike	100	101		
890-2268-A-5-D MSD	Matrix Spike Duplicate	52 S1-	101		
890-2269-1	PH08	112	99		
890-2269-2	PH08	110	100		
890-2269-3	PH09	111	101		
890-2269-4	PH09	106	100		
890-2269-5	PH10	104	100		
890-2269-6	PH10	107	95		
890-2269-7	PH11	90	92		
890-2269-8	PH11	104	98		
890-2269-9	PH12	104	98		
890-2269-10	PH12	106	98		
890-2269-11	PH13	114	95		
890-2269-12	PH13	114	93		
LCS 880-25280/1-A	Lab Control Sample	99	99		
LCS 880-25411/1-A	Lab Control Sample	127	90		
LCSD 880-25280/2-A	Lab Control Sample Dup	103	99		
LCSD 880-25411/2-A	Lab Control Sample Dup	126	89		
MB 880-25280/5-A	Method Blank	95	95		
MB 880-25377/8	Method Blank	102	91		
MB 880-25410/5-A	Method Blank	99	97		
MB 880-25411/5-A	Method Blank	105	90		
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)		
890-2268-A-2-C MS	Matrix Spike	88	89		
890-2268-A-2-D MSD	Matrix Spike Duplicate	86	85		
890-2269-1	PH08	91	98		
890-2269-2	PH08	98	106		
890-2269-3	PH09	89	97		

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Surrogate Summary

Client: Ensolum

Job ID: 890-2269-1

Project/Site: North Brushy Draw 35-12H

SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2269-4	PH09	94	99
890-2269-5	PH10	99	107
890-2269-6	PH10	124	132 S1+
890-2269-7	PH11	95	100
890-2269-8	PH11	92	98
890-2269-9	PH12	125	128
890-2269-10	PH12	121	124
890-2269-11	PH13	128	131 S1+
890-2269-12	PH13	124	127
890-2271-A-61-E MS	Matrix Spike	104	92
890-2271-A-61-F MSD	Matrix Spike Duplicate	89	78
LCS 880-24872/2-A	Lab Control Sample	101	104
LCS 880-24911/2-A	Lab Control Sample	101	95
LCSD 880-24872/3-A	Lab Control Sample Dup	113	117
LCSD 880-24911/3-A	Lab Control Sample Dup	111	105
MB 880-24872/1-A	Method Blank	90	99
MB 880-24911/1-A	Method Blank	98	102
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25280/5-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 03:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 03:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 03:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/10/22 13:55	05/13/22 03:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:55	05/13/22 03:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/10/22 13:55	05/13/22 03:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/10/22 13:55	05/13/22 03:18	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/10/22 13:55	05/13/22 03:18	1

Lab Sample ID: LCS 880-25280/1-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08000		mg/Kg		80	70 - 130
Toluene	0.100	0.08031		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.08009		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1673		mg/Kg		84	70 - 130
o-Xylene	0.100	0.09217		mg/Kg		92	70 - 130

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

Lab Sample ID: LCSD 880-25280/2-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25280

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09257		mg/Kg		93	70 - 130	15	35
Toluene	0.100	0.09097		mg/Kg		91	70 - 130	12	35
Ethylbenzene	0.100	0.09250		mg/Kg		93	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1909		mg/Kg		95	70 - 130	13	35
o-Xylene	0.100	0.1050		mg/Kg		105	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-2268-A-5-C MS

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25280

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0998	0.06774	F1	mg/Kg		68	70 - 130
Toluene	<0.00200	U F1	0.0998	0.05854	F1	mg/Kg		58	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-2268-A-5-C MS

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25280

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.0998	0.04658	F1	mg/Kg		47	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.09248	F1	mg/Kg		46	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.04911	F1	mg/Kg		49	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-2268-A-5-D MSD

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25280

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0996	0.06807	F1	mg/Kg		68	70 - 130	0	35
Toluene	<0.00200	U F1	0.0996	0.05335	F1	mg/Kg		52	70 - 130	9	35
Ethylbenzene	<0.00200	U F1	0.0996	0.04085	F1	mg/Kg		41	70 - 130	13	35
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.07874	F1	mg/Kg		40	70 - 130	16	35
o-Xylene	<0.00200	U F1	0.0996	0.04152	F1	mg/Kg		42	70 - 130	17	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	52	S1-	70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-25377/8

Matrix: Solid

Analysis Batch: 25377

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			05/12/22 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg			05/12/22 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			05/12/22 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			05/12/22 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			05/12/22 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			05/12/22 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		05/12/22 11:33	1
1,4-Difluorobenzene (Surr)	91		70 - 130		05/12/22 11:33	1

Lab Sample ID: MB 880-25410/5-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 15:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 15:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 15:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/12/22 10:53	05/12/22 15:39	1

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-25410/5-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 15:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/12/22 10:53	05/12/22 15:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				05/12/22 10:53	05/12/22 15:39	1
1,4-Difluorobenzene (Surr)	97		70 - 130				05/12/22 10:53	05/12/22 15:39	1

Lab Sample ID: MB 880-25411/5-A

Matrix: Solid

Analysis Batch: 25377

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25411

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/12/22 11:01	05/12/22 23:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/12/22 11:01	05/12/22 23:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/12/22 11:01	05/12/22 23:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/12/22 11:01	05/12/22 23:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/12/22 11:01	05/12/22 23:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/12/22 11:01	05/12/22 23:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/12/22 11:01	05/12/22 23:12	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/12/22 11:01	05/12/22 23:12	1

Lab Sample ID: LCS 880-25411/1-A

Matrix: Solid

Analysis Batch: 25377

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25411

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07864		mg/Kg		79	70 - 130
Toluene	0.100	0.09949		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1092		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2321		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1185		mg/Kg		119	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	127		70 - 130				
1,4-Difluorobenzene (Surr)	90		70 - 130				

Lab Sample ID: LCSD 880-25411/2-A

Matrix: Solid

Analysis Batch: 25377

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25411

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07815		mg/Kg		78	70 - 130	1	35
Toluene	0.100	0.09907		mg/Kg		99	70 - 130	0	35
Ethylbenzene	0.100	0.1084		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2301		mg/Kg		115	70 - 130	1	35
o-Xylene	0.100	0.1173		mg/Kg		117	70 - 130	1	35

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-14720-A-1-A MS

Matrix: Solid

Analysis Batch: 25377

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25411

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.06874		mg/Kg			
Toluene			0.100	0.08463		mg/Kg			
Ethylbenzene			0.100	0.09382		mg/Kg			
m-Xylene & p-Xylene			0.201	0.2005		mg/Kg			
o-Xylene			0.100	0.1009		mg/Kg			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 880-14720-A-1-B MSD

Matrix: Solid

Analysis Batch: 25377

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25411

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07124		mg/Kg					
Toluene			0.100	0.08910		mg/Kg					
Ethylbenzene			0.100	0.09603		mg/Kg					
m-Xylene & p-Xylene			0.200	0.2040		mg/Kg					
o-Xylene			0.100	0.1022		mg/Kg					

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

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

Lab Sample ID: MB 880-24872/1-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/05/22 21:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/05/22 21:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/05/22 21:06	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	90		70 - 130	05/05/22 11:19	05/05/22 21:06	1			
o-Terphenyl	99		70 - 130	05/05/22 11:19	05/05/22 21:06	1			

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-24872/2-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24872

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	973.5		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1047		mg/Kg		105	70 - 130		

Lab Sample ID: LCSD 880-24872/3-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24872

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	609.9	*- *1	mg/Kg		61	70 - 130	46	20
Diesel Range Organics (Over C10-C28)			1000	1073		mg/Kg		107	70 - 130	2	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	117		70 - 130								

Lab Sample ID: 890-2268-A-2-C MS

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24872

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	1000	823.4		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	878.5		mg/Kg		86	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	88		70 - 130								
o-Terphenyl	89		70 - 130								

Lab Sample ID: 890-2268-A-2-D MSD

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24872

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	998	808.2		mg/Kg		78	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	843.1		mg/Kg		83	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	86		70 - 130								

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-2268-A-2-D MSD

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24872

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	85		70 - 130

Lab Sample ID: MB 880-24911/1-A

Matrix: Solid

Analysis Batch: 24947

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24911

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/06/22 20:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/06/22 20:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 14:19	05/06/22 20:46	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				05/05/22 14:19	05/06/22 20:46	1
<i>o</i> -Terphenyl	102		70 - 130				05/05/22 14:19	05/06/22 20:46	1

Lab Sample ID: LCS 880-24911/2-A

Matrix: Solid

Analysis Batch: 24947

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1096		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	901.0		mg/Kg		90	70 - 130
Surrogate	LCS	LCS	Limits				
1-Chlorooctane	101		70 - 130				
<i>o</i> -Terphenyl	95		70 - 130				

Lab Sample ID: LCSD 880-24911/3-A

Matrix: Solid

Analysis Batch: 24947

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24911

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1119		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	924.3		mg/Kg		92	70 - 130	3	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	111		70 - 130						
<i>o</i> -Terphenyl	105		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-2271-A-61-E MS

Matrix: Solid

Analysis Batch: 24947

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24911

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	1195		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	940.9		mg/Kg		92	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	92		70 - 130						

Lab Sample ID: 890-2271-A-61-F MSD

Matrix: Solid

Analysis Batch: 24947

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24911

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	998	1029		mg/Kg		103	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	813.9		mg/Kg		80	70 - 130	14	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	78		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24816/1-A

Matrix: Solid

Analysis Batch: 24926

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/05/22 17:39	1

Lab Sample ID: LCS 880-24816/2-A

Matrix: Solid

Analysis Batch: 24926

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.6		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-24816/3-A

Matrix: Solid

Analysis Batch: 24926

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	256.8		mg/Kg		103	90 - 110	4	20

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2269-7 MS

Matrix: Solid

Analysis Batch: 24926

Client Sample ID: PH11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	147		253	384.4		mg/Kg		94	90 - 110		

Lab Sample ID: 890-2269-7 MSD

Matrix: Solid

Analysis Batch: 24926

Client Sample ID: PH11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	147		253	393.1		mg/Kg		97	90 - 110	2	20

QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 25280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-1	PH08	Total/NA	Solid	5035	
890-2269-2	PH08	Total/NA	Solid	5035	
890-2269-3	PH09	Total/NA	Solid	5035	
890-2269-4	PH09	Total/NA	Solid	5035	
890-2269-5	PH10	Total/NA	Solid	5035	
890-2269-6	PH10	Total/NA	Solid	5035	
890-2269-7	PH11	Total/NA	Solid	5035	
890-2269-8	PH11	Total/NA	Solid	5035	
890-2269-9	PH12	Total/NA	Solid	5035	
890-2269-10	PH12	Total/NA	Solid	5035	
MB 880-25280/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25280/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25280/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2268-A-5-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2268-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-11	PH13	Total/NA	Solid	8021B	25411
890-2269-12	PH13	Total/NA	Solid	8021B	25411
MB 880-25377/8	Method Blank	Total/NA	Solid	8021B	
MB 880-25411/5-A	Method Blank	Total/NA	Solid	8021B	25411
LCS 880-25411/1-A	Lab Control Sample	Total/NA	Solid	8021B	25411
LCSD 880-25411/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25411
880-14720-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	25411
880-14720-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25411

Prep Batch: 25410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25410/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 25411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-11	PH13	Total/NA	Solid	5035	
890-2269-12	PH13	Total/NA	Solid	5035	
MB 880-25411/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25411/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25411/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14720-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-14720-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-1	PH08	Total/NA	Solid	8021B	25280
890-2269-2	PH08	Total/NA	Solid	8021B	25280
890-2269-3	PH09	Total/NA	Solid	8021B	25280
890-2269-4	PH09	Total/NA	Solid	8021B	25280
890-2269-5	PH10	Total/NA	Solid	8021B	25280
890-2269-6	PH10	Total/NA	Solid	8021B	25280
890-2269-7	PH11	Total/NA	Solid	8021B	25280
890-2269-8	PH11	Total/NA	Solid	8021B	25280

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 25413 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-9	PH12	Total/NA	Solid	8021B	25280
890-2269-10	PH12	Total/NA	Solid	8021B	25280
MB 880-25280/5-A	Method Blank	Total/NA	Solid	8021B	25280
MB 880-25410/5-A	Method Blank	Total/NA	Solid	8021B	25410
LCS 880-25280/1-A	Lab Control Sample	Total/NA	Solid	8021B	25280
LCSD 880-25280/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25280
890-2268-A-5-C MS	Matrix Spike	Total/NA	Solid	8021B	25280
890-2268-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25280

Analysis Batch: 25528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-1	PH08	Total/NA	Solid	Total BTEX	
890-2269-2	PH08	Total/NA	Solid	Total BTEX	
890-2269-3	PH09	Total/NA	Solid	Total BTEX	
890-2269-4	PH09	Total/NA	Solid	Total BTEX	
890-2269-5	PH10	Total/NA	Solid	Total BTEX	
890-2269-6	PH10	Total/NA	Solid	Total BTEX	
890-2269-7	PH11	Total/NA	Solid	Total BTEX	
890-2269-8	PH11	Total/NA	Solid	Total BTEX	
890-2269-9	PH12	Total/NA	Solid	Total BTEX	
890-2269-10	PH12	Total/NA	Solid	Total BTEX	
890-2269-11	PH13	Total/NA	Solid	Total BTEX	
890-2269-12	PH13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 24856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-1	PH08	Total/NA	Solid	8015B NM	24872
890-2269-2	PH08	Total/NA	Solid	8015B NM	24872
890-2269-3	PH09	Total/NA	Solid	8015B NM	24872
890-2269-4	PH09	Total/NA	Solid	8015B NM	24872
890-2269-5	PH10	Total/NA	Solid	8015B NM	24872
890-2269-6	PH10	Total/NA	Solid	8015B NM	24872
890-2269-7	PH11	Total/NA	Solid	8015B NM	24872
890-2269-8	PH11	Total/NA	Solid	8015B NM	24872
MB 880-24872/1-A	Method Blank	Total/NA	Solid	8015B NM	24872
LCS 880-24872/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24872
LCSD 880-24872/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24872
890-2268-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	24872
890-2268-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24872

Prep Batch: 24872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-1	PH08	Total/NA	Solid	8015NM Prep	
890-2269-2	PH08	Total/NA	Solid	8015NM Prep	
890-2269-3	PH09	Total/NA	Solid	8015NM Prep	
890-2269-4	PH09	Total/NA	Solid	8015NM Prep	
890-2269-5	PH10	Total/NA	Solid	8015NM Prep	
890-2269-6	PH10	Total/NA	Solid	8015NM Prep	
890-2269-7	PH11	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 24872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-8	PH11	Total/NA	Solid	8015NM Prep	
MB 880-24872/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24872/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24872/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2268-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2268-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 24911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-9	PH12	Total/NA	Solid	8015NM Prep	
890-2269-10	PH12	Total/NA	Solid	8015NM Prep	
890-2269-11	PH13	Total/NA	Solid	8015NM Prep	
890-2269-12	PH13	Total/NA	Solid	8015NM Prep	
MB 880-24911/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24911/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24911/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2271-A-61-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2271-A-61-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-9	PH12	Total/NA	Solid	8015B NM	24911
890-2269-10	PH12	Total/NA	Solid	8015B NM	24911
890-2269-11	PH13	Total/NA	Solid	8015B NM	24911
890-2269-12	PH13	Total/NA	Solid	8015B NM	24911
MB 880-24911/1-A	Method Blank	Total/NA	Solid	8015B NM	24911
LCS 880-24911/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24911
LCSD 880-24911/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24911
890-2271-A-61-E MS	Matrix Spike	Total/NA	Solid	8015B NM	24911
890-2271-A-61-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24911

Analysis Batch: 24959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-1	PH08	Total/NA	Solid	8015 NM	
890-2269-2	PH08	Total/NA	Solid	8015 NM	
890-2269-3	PH09	Total/NA	Solid	8015 NM	
890-2269-4	PH09	Total/NA	Solid	8015 NM	
890-2269-5	PH10	Total/NA	Solid	8015 NM	
890-2269-6	PH10	Total/NA	Solid	8015 NM	
890-2269-7	PH11	Total/NA	Solid	8015 NM	
890-2269-8	PH11	Total/NA	Solid	8015 NM	
890-2269-9	PH12	Total/NA	Solid	8015 NM	
890-2269-10	PH12	Total/NA	Solid	8015 NM	
890-2269-11	PH13	Total/NA	Solid	8015 NM	
890-2269-12	PH13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-1	PH08	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 24816 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-2	PH08	Soluble	Solid	DI Leach	
890-2269-3	PH09	Soluble	Solid	DI Leach	
890-2269-4	PH09	Soluble	Solid	DI Leach	
890-2269-5	PH10	Soluble	Solid	DI Leach	
890-2269-6	PH10	Soluble	Solid	DI Leach	
890-2269-7	PH11	Soluble	Solid	DI Leach	
890-2269-8	PH11	Soluble	Solid	DI Leach	
890-2269-9	PH12	Soluble	Solid	DI Leach	
890-2269-10	PH12	Soluble	Solid	DI Leach	
890-2269-11	PH13	Soluble	Solid	DI Leach	
890-2269-12	PH13	Soluble	Solid	DI Leach	
MB 880-24816/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24816/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24816/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2269-7 MS	PH11	Soluble	Solid	DI Leach	
890-2269-7 MSD	PH11	Soluble	Solid	DI Leach	

Analysis Batch: 24926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2269-1	PH08	Soluble	Solid	300.0	24816
890-2269-2	PH08	Soluble	Solid	300.0	24816
890-2269-3	PH09	Soluble	Solid	300.0	24816
890-2269-4	PH09	Soluble	Solid	300.0	24816
890-2269-5	PH10	Soluble	Solid	300.0	24816
890-2269-6	PH10	Soluble	Solid	300.0	24816
890-2269-7	PH11	Soluble	Solid	300.0	24816
890-2269-8	PH11	Soluble	Solid	300.0	24816
890-2269-9	PH12	Soluble	Solid	300.0	24816
890-2269-10	PH12	Soluble	Solid	300.0	24816
890-2269-11	PH13	Soluble	Solid	300.0	24816
890-2269-12	PH13	Soluble	Solid	300.0	24816
MB 880-24816/1-A	Method Blank	Soluble	Solid	300.0	24816
LCS 880-24816/2-A	Lab Control Sample	Soluble	Solid	300.0	24816
LCSD 880-24816/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24816
890-2269-7 MS	PH11	Soluble	Solid	300.0	24816
890-2269-7 MSD	PH11	Soluble	Solid	300.0	24816

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Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH08

Lab Sample ID: 890-2269-1

Date Collected: 05/02/22 10:35

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 08:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25528	05/13/22 10:31	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24959	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 01:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 19:02	CH	XEN MID

Client Sample ID: PH08

Lab Sample ID: 890-2269-2

Date Collected: 05/02/22 10:40

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 09:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25528	05/13/22 10:31	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24959	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 02:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 19:30	CH	XEN MID

Client Sample ID: PH09

Lab Sample ID: 890-2269-3

Date Collected: 05/02/22 10:45

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 09:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25528	05/13/22 10:31	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24959	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 02:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 19:39	CH	XEN MID

Client Sample ID: PH09

Lab Sample ID: 890-2269-4

Date Collected: 05/02/22 10:50

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 09:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25528	05/13/22 10:31	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH09

Lab Sample ID: 890-2269-4

Date Collected: 05/02/22 10:50

Matrix: Solid

Date Received: 05/03/22 08:13

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			24959	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 03:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 19:48	CH	XEN MID

Client Sample ID: PH10

Lab Sample ID: 890-2269-5

Date Collected: 05/02/22 10:55

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 10:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25528	05/13/22 10:31	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24959	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 03:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 19:57	CH	XEN MID

Client Sample ID: PH10

Lab Sample ID: 890-2269-6

Date Collected: 05/02/22 11:00

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 10:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25528	05/13/22 10:31	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24959	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 03:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 20:06	CH	XEN MID

Client Sample ID: PH11

Lab Sample ID: 890-2269-7

Date Collected: 05/02/22 11:05

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 10:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25528	05/13/22 10:31	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24959	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 04:10	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH11

Lab Sample ID: 890-2269-7

Date Collected: 05/02/22 11:05

Matrix: Solid

Date Received: 05/03/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 20:16	CH	XEN MID

Client Sample ID: PH11

Lab Sample ID: 890-2269-8

Date Collected: 05/02/22 11:10

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 11:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25528	05/13/22 10:31	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24959	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 04:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 20:43	CH	XEN MID

Client Sample ID: PH12

Lab Sample ID: 890-2269-9

Date Collected: 05/02/22 11:15

Matrix: Solid

Date Received: 05/03/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 11:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25528	05/13/22 10:31	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24959	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24911	05/05/22 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24947	05/07/22 00:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 20:52	CH	XEN MID

Client Sample ID: PH12

Lab Sample ID: 890-2269-10

Date Collected: 05/02/22 11:20

Matrix: Solid

Date Received: 05/03/22 08:13

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	25280	05/10/22 13:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/13/22 11:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25528	05/13/22 10:31	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24959	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24911	05/05/22 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24947	05/07/22 00:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 21:20	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Client Sample ID: PH13

Lab Sample ID: 890-2269-11

Date Collected: 05/02/22 11:25

Matrix: Solid

Date Received: 05/03/22 08:13

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	25411	05/12/22 11:01	MR	XEN MID
Total/NA	Analysis	8021B		1			25377	05/13/22 06:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25528	05/13/22 10:31	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24959	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24911	05/05/22 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24947	05/07/22 00:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 21:29	CH	XEN MID

Client Sample ID: PH13

Lab Sample ID: 890-2269-12

Date Collected: 05/02/22 11:30

Matrix: Solid

Date Received: 05/03/22 08:13

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	25411	05/12/22 11:01	MR	XEN MID
Total/NA	Analysis	8021B		1			25377	05/13/22 06:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25528	05/13/22 10:31	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24959	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24911	05/05/22 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24947	05/07/22 01:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 21:38	CH	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: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

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

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

Method Summary

Client: Ensolum
Project/Site: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

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: North Brushy Draw 35-12H

Job ID: 890-2269-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2269-1	PH08	Solid	05/02/22 10:35	05/03/22 08:13	0.5'
890-2269-2	PH08	Solid	05/02/22 10:40	05/03/22 08:13	1'
890-2269-3	PH09	Solid	05/02/22 10:45	05/03/22 08:13	0.5'
890-2269-4	PH09	Solid	05/02/22 10:50	05/03/22 08:13	1'
890-2269-5	PH10	Solid	05/02/22 10:55	05/03/22 08:13	0.5'
890-2269-6	PH10	Solid	05/02/22 11:00	05/03/22 08:13	1'
890-2269-7	PH11	Solid	05/02/22 11:05	05/03/22 08:13	0.5'
890-2269-8	PH11	Solid	05/02/22 11:10	05/03/22 08:13	1'
890-2269-9	PH12	Solid	05/02/22 11:15	05/03/22 08:13	0.5'
890-2269-10	PH12	Solid	05/02/22 11:20	05/03/22 08:13	1'
890-2269-11	PH13	Solid	05/02/22 11:25	05/03/22 08:13	0.5'
890-2269-12	PH13	Solid	05/02/22 11:30	05/03/22 08:13	1'



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) 586-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Ben Belli	Bill to: (if different)	Jim Raley
Company Name:	Ensolum	Company Name:	WPX
Address:	3122 National Parks HWY	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	969-854-0852	Email:	BBelli@Ensolum.com

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:	North Brushy Draw 35-12H	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03A1987015	Due Date:	5/24/21		
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Gilbert Moreno				
CC #:	1061183501	Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No
SAMPLE RECEIPT		Thermometer ID:	71W-207		
Samples Received In tact:	☒ Yes ☐ No	Correction Factor:	-0.2		
Cooler Custody Seals:	☒ Yes ☐ No	Temperature Reading:	2.2		
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:	2.2		
Total Containers:		Corrected Temperature:	2.0		



890-2269 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	ANALYSIS REQUEST	Preservative Codes
PH08	S	5.2.22	10:35	0.5'	Comp	1	X	X	X		None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
PH08	S	5.2.22	10:40	1'	Comp	1	X	X	X		
PH09	S	5.2.22	10:45	0.5'	Comp	1	X	X	X		
PH09	S	5.2.22	10:50	1'	Comp	1	X	X	X		
PH10	S	5.2.22	10:55	0.5'	Comp	1	X	X	X		
PH10	S	5.2.22	11:00	1'	Comp	1	X	X	X		
PH11	S	5.2.22	11:05	0.5'	Comp	1	X	X	X		
PH11	S	5.2.22	11:10	1'	Comp	1	X	X	X		
PH12	S	5.2.22	11:15	0.5'	Comp	1	X	X	X		
PH12	S	5.2.22	11:20	1'	Comp	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 Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010:	8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	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
<i>Ben Belli</i>	<i>Joe Arp</i>	5-3-22 08:33			



Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Ben Bell	Bill to: (if different)	Jim Raley
Company Name:	Ensolium	Company Name:	WPX
Address:	3122 National Parks HWY	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	968-854-0852	Email:	BBell@Ensolium.com

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:	North Brushy Draw 35-12H	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST																Preservative Codes	
Project Number:	03A1987015	Due Date:	5 DAY																			None: NO	DI Water: H ₂ O
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm																				Cool: Cool	MeOH: Me
Sampler's Name:	Gilbert Moreno																					HCL: HC	HNO ₃ : HN
CC #:	10611 @ 3501																					H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet loc:	Yes No																		H ₃ PO ₄ : HP	
Samples Received Intact:	Yes No	Thermometer ID:																				NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No	Correction Factor:																				Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No	Temperature Reading:																				Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)																	Sample Comments
PH13	S	5.2.22	11:25	0.5'	Comp	1	X	X	X																	
PH13	S	5.2.22	11:30	1'	Comp	1	X	X	X																	
																	Incident ID	nAPP220884411								

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 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
<i>Chavez</i>	<i>Cuevas</i>	5-3-22 0818			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2269-1
SDG Number: Eddy County, NM

Login Number: 2269

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: 890-2269-1
SDG Number: Eddy County, NM

Login Number: 2269

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 05/04/22 10:56 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2361-1

Laboratory Sample Delivery Group: 03A1987015

Client Project/Site: North Brush Draw Federal 35 #012H
Revision: 3

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Ben Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
6/15/2022 3:09:09 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Laboratory Job ID: 890-2361-1
SDG: 03A1987015

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	6
Surrogate Summary	30
QC Sample Results	32
QC Association Summary	41
Lab Chronicle	49
Certification Summary	58
Method Summary	59
Sample Summary	60
Chain of Custody	61
Receipt Checklists	65

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

Definitions/Glossary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Job ID: 890-2361-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2361-1

REVISION

The report being provided is a revision of the original report sent on 6/6/2022. The report (revision 3) is being revised due to Wrong COC attached in final report..

Report revision history

The report being provided is a revision of the original report sent on 6/6/2022. The report (revision 3) is being revised due to Wrong COC attached in final report..

Revision 2 - 6/13/2022 - Reason - Per client email 06/10/22 requesting COC to be updated and correct sample ID FS23 to FS54.

Revision 2 - 6/13/2022 - Reason - Per client email 06/10/22 requesting COC to be updated and correct sample ID FS23 to FS54.

Revision 1 - 6/7/2022 - Reason - Per client email, corrected sample depths from 1' to 4' for samples FS01, FS02, FS03, and FS04.

Receipt

The samples were received on 5/31/2022 10:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The method blank for preparation batch 880-26657 and analytical batch 880-26613 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW06 (890-2361-27). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-26686 and analytical batch 880-26698 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-26686 and analytical batch 880-26698 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-26644 and analytical batch 880-26760 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-26727 and analytical batch 880-26784 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Case Narrative

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Job ID: 890-2361-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS01

Lab Sample ID: 890-2361-1

Date Collected: 05/27/22 09:30

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/04/22 23:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/04/22 23:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/04/22 23:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/22 11:32	06/04/22 23:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/04/22 23:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/22 11:32	06/04/22 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	06/02/22 11:32	06/04/22 23:29	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/02/22 11:32	06/04/22 23:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.4		50.0		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/01/22 21:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/01/22 21:48	1
Oil Range Organics (Over C28-C36)	50.4		50.0		mg/Kg		06/01/22 14:04	06/01/22 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	06/01/22 14:04	06/01/22 21:48	1
o-Terphenyl	120		70 - 130	06/01/22 14:04	06/01/22 21:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		4.95		mg/Kg			06/03/22 15:38	1

Client Sample ID: FS02

Lab Sample ID: 890-2361-2

Date Collected: 05/27/22 09:35

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/22 11:32	06/04/22 23:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/22 11:32	06/04/22 23:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/22 11:32	06/04/22 23:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/22 11:32	06/04/22 23:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/22 11:32	06/04/22 23:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/22 11:32	06/04/22 23:49	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS02

Lab Sample ID: 890-2361-2

Date Collected: 05/27/22 09:35

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/02/22 11:32	06/04/22 23:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/02/22 11:32	06/04/22 23:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/01/22 22:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/01/22 22:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/01/22 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				06/01/22 14:04	06/01/22 22:53	1
o-Terphenyl	101		70 - 130				06/01/22 14:04	06/01/22 22:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	969	F1 F2	25.2		mg/Kg			06/03/22 15:46	5

Client Sample ID: FS03

Lab Sample ID: 890-2361-3

Date Collected: 05/27/22 09:40

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/02/22 11:32	06/05/22 00:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/02/22 11:32	06/05/22 00:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/02/22 11:32	06/05/22 00:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/02/22 11:32	06/05/22 00:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/02/22 11:32	06/05/22 00:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/02/22 11:32	06/05/22 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				06/02/22 11:32	06/05/22 00:10	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/02/22 11:32	06/05/22 00:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS03

Lab Sample ID: 890-2361-3

Date Collected: 05/27/22 09:40

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/01/22 23:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/01/22 23:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/01/22 23:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				06/01/22 14:04	06/01/22 23:14	1
o-Terphenyl	102		70 - 130				06/01/22 14:04	06/01/22 23:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.2		4.98		mg/Kg			06/03/22 16:09	1

Client Sample ID: FS04

Lab Sample ID: 890-2361-4

Date Collected: 05/27/22 09:45

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 00:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 00:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 00:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/02/22 11:32	06/05/22 00:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 00:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/02/22 11:32	06/05/22 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				06/02/22 11:32	06/05/22 00:30	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/02/22 11:32	06/05/22 00:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/01/22 23:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/01/22 23:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/01/22 23:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				06/01/22 14:04	06/01/22 23:36	1
o-Terphenyl	98		70 - 130				06/01/22 14:04	06/01/22 23:36	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS04

Date Collected: 05/27/22 09:45

Date Received: 05/31/22 10:04

Sample Depth: 4

Lab Sample ID: 890-2361-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.62		4.97		mg/Kg			06/03/22 16:17	1

Client Sample ID: FS05

Date Collected: 05/27/22 09:50

Date Received: 05/31/22 10:04

Sample Depth: 1

Lab Sample ID: 890-2361-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/22 11:32	06/05/22 02:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/22 11:32	06/05/22 02:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/22 11:32	06/05/22 02:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/22 11:32	06/05/22 02:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/22 11:32	06/05/22 02:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/22 11:32	06/05/22 02:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				06/02/22 11:32	06/05/22 02:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/02/22 11:32	06/05/22 02:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/01/22 23:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/01/22 23:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/01/22 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				06/01/22 14:04	06/01/22 23:56	1
o-Terphenyl	99		70 - 130				06/01/22 14:04	06/01/22 23:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.6		4.98		mg/Kg			06/03/22 16:41	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS06

Lab Sample ID: 890-2361-6

Date Collected: 05/27/22 09:55

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 02:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 02:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 02:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/22 11:32	06/05/22 02:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 02:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/22 11:32	06/05/22 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	06/02/22 11:32	06/05/22 02:41	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/02/22 11:32	06/05/22 02:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 00:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 00:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	06/01/22 14:04	06/02/22 00:16	1
o-Terphenyl	109		70 - 130	06/01/22 14:04	06/02/22 00:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.7		4.95		mg/Kg			06/03/22 16:49	1

Client Sample ID: FS07

Lab Sample ID: 890-2361-7

Date Collected: 05/27/22 10:00

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 03:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 03:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 03:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/22 11:32	06/05/22 03:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 03:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/22 11:32	06/05/22 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	06/02/22 11:32	06/05/22 03:01	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS07

Lab Sample ID: 890-2361-7

Date Collected: 05/27/22 10:00

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	06/02/22 11:32	06/05/22 03:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 00:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 00:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 00:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				06/01/22 14:04	06/02/22 00:37	1
o-Terphenyl	100		70 - 130				06/01/22 14:04	06/02/22 00:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.2		5.01		mg/Kg			06/03/22 16:57	1

Client Sample ID: FS08

Lab Sample ID: 890-2361-8

Date Collected: 05/27/22 10:05

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 03:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 03:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 03:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/22 11:32	06/05/22 03:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 03:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/22 11:32	06/05/22 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	06/02/22 11:32	06/05/22 03:22	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/02/22 11:32	06/05/22 03:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS08

Lab Sample ID: 890-2361-8

Date Collected: 05/27/22 10:05

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 00:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 00:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				06/01/22 14:04	06/02/22 00:57	1
o-Terphenyl	88		70 - 130				06/01/22 14:04	06/02/22 00:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.1		4.98		mg/Kg			06/03/22 17:05	1

Client Sample ID: FS11

Lab Sample ID: 890-2361-9

Date Collected: 05/27/22 10:20

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 03:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 03:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 03:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/22 11:32	06/05/22 03:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 03:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/22 11:32	06/05/22 03:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				06/02/22 11:32	06/05/22 03:42	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/02/22 11:32	06/05/22 03:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 01:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 01:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				06/01/22 14:04	06/02/22 01:17	1
o-Terphenyl	110		70 - 130				06/01/22 14:04	06/02/22 01:17	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS11

Date Collected: 05/27/22 10:20

Date Received: 05/31/22 10:04

Sample Depth: 1

Lab Sample ID: 890-2361-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	252		5.00		mg/Kg			06/03/22 17:13	1

Client Sample ID: FS12

Date Collected: 05/27/22 10:25

Date Received: 05/31/22 10:04

Sample Depth: 1

Lab Sample ID: 890-2361-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 04:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 04:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 04:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/22 11:32	06/05/22 04:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/05/22 04:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/22 11:32	06/05/22 04:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				06/02/22 11:32	06/05/22 04:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130				06/02/22 11:32	06/05/22 04:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 01:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 01:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				06/01/22 14:04	06/02/22 01:38	1
o-Terphenyl	92		70 - 130				06/01/22 14:04	06/02/22 01:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193		5.00		mg/Kg			06/03/22 17:21	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS13

Lab Sample ID: 890-2361-11

Date Collected: 05/27/22 10:30

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 04:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 04:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 04:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/22 11:32	06/05/22 04:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 04:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/22 11:32	06/05/22 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/02/22 11:32	06/05/22 04:23	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/02/22 11:32	06/05/22 04:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 02:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 02:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	06/01/22 14:04	06/02/22 02:19	1
o-Terphenyl	98		70 - 130	06/01/22 14:04	06/02/22 02:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	195		5.00		mg/Kg			06/03/22 17:29	1

Client Sample ID: FS14

Lab Sample ID: 890-2361-12

Date Collected: 05/27/22 10:35

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/22 11:32	06/05/22 04:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/22 11:32	06/05/22 04:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/22 11:32	06/05/22 04:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/02/22 11:32	06/05/22 04:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/22 11:32	06/05/22 04:44	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/02/22 11:32	06/05/22 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	06/02/22 11:32	06/05/22 04:44	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS14

Lab Sample ID: 890-2361-12

Date Collected: 05/27/22 10:35

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	06/02/22 11:32	06/05/22 04:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 02:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 02:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 02:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				06/01/22 14:04	06/02/22 02:39	1
o-Terphenyl	91		70 - 130				06/01/22 14:04	06/02/22 02:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	277		4.99		mg/Kg			06/02/22 17:46	1

Client Sample ID: FS15

Lab Sample ID: 890-2361-13

Date Collected: 05/26/22 09:20

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 05:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 05:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 05:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/22 11:32	06/05/22 05:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 05:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/22 11:32	06/05/22 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/02/22 11:32	06/05/22 05:04	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/02/22 11:32	06/05/22 05:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS15

Date Collected: 05/26/22 09:20

Date Received: 05/31/22 10:04

Sample Depth: 4

Lab Sample ID: 890-2361-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 03:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 03:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 03:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				06/01/22 14:04	06/02/22 03:00	1
o-Terphenyl	96		70 - 130				06/01/22 14:04	06/02/22 03:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.00		mg/Kg			06/02/22 17:54	1

Client Sample ID: FS16

Date Collected: 05/26/22 09:25

Date Received: 05/31/22 10:04

Sample Depth: 4

Lab Sample ID: 890-2361-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 05:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 05:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 05:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/22 11:32	06/05/22 05:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:32	06/05/22 05:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/22 11:32	06/05/22 05:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				06/02/22 11:32	06/05/22 05:24	1
1,4-Difluorobenzene (Surr)	97		70 - 130				06/02/22 11:32	06/05/22 05:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 03:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 03:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				06/01/22 14:04	06/02/22 03:20	1
o-Terphenyl	103		70 - 130				06/01/22 14:04	06/02/22 03:20	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS16

Date Collected: 05/26/22 09:25

Date Received: 05/31/22 10:04

Sample Depth: 4

Lab Sample ID: 890-2361-14

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		4.95		mg/Kg			06/02/22 18:33	1

Client Sample ID: FS17

Date Collected: 05/26/22 09:30

Date Received: 05/31/22 10:04

Sample Depth: 4

Lab Sample ID: 890-2361-15

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 03:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 03:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 03:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/02/22 11:38	06/04/22 03:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 03:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/02/22 11:38	06/04/22 03:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				06/02/22 11:38	06/04/22 03:59	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/02/22 11:38	06/04/22 03:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 03:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 03:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				06/01/22 14:04	06/02/22 03:41	1
o-Terphenyl	110		70 - 130				06/01/22 14:04	06/02/22 03:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	597		5.01		mg/Kg			06/02/22 18:41	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS18

Lab Sample ID: 890-2361-16

Date Collected: 05/26/22 09:35

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 04:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 04:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 04:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/22 11:38	06/04/22 04:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 04:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/22 11:38	06/04/22 04:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	06/02/22 11:38	06/04/22 04:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/02/22 11:38	06/04/22 04:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 04:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 04:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 04:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	06/01/22 14:04	06/02/22 04:01	1
o-Terphenyl	108		70 - 130	06/01/22 14:04	06/02/22 04:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.8		4.95		mg/Kg			06/02/22 18:49	1

Client Sample ID: FS19

Lab Sample ID: 890-2361-17

Date Collected: 05/26/22 09:40

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 04:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 04:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 04:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/22 11:38	06/04/22 04:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 04:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/22 11:38	06/04/22 04:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	06/02/22 11:38	06/04/22 04:39	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS19

Lab Sample ID: 890-2361-17

Date Collected: 05/26/22 09:40

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	06/02/22 11:38	06/04/22 04:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 04:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 04:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				06/01/22 14:04	06/02/22 04:21	1
o-Terphenyl	123		70 - 130				06/01/22 14:04	06/02/22 04:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2510		24.9		mg/Kg			06/02/22 18:57	5

Client Sample ID: FS20

Lab Sample ID: 890-2361-18

Date Collected: 05/26/22 09:45

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/22 11:38	06/04/22 05:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/22 11:38	06/04/22 05:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/22 11:38	06/04/22 05:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/02/22 11:38	06/04/22 05:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/22 11:38	06/04/22 05:00	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/02/22 11:38	06/04/22 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/02/22 11:38	06/04/22 05:00	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/02/22 11:38	06/04/22 05:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS20

Date Collected: 05/26/22 09:45

Date Received: 05/31/22 10:04

Sample Depth: 4

Lab Sample ID: 890-2361-18

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 04:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 04:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:04	06/02/22 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				06/01/22 14:04	06/02/22 04:41	1
o-Terphenyl	105		70 - 130				06/01/22 14:04	06/02/22 04:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2440		24.8		mg/Kg			06/02/22 19:05	5

Client Sample ID: FS21

Date Collected: 05/26/22 09:50

Date Received: 05/31/22 10:04

Sample Depth: 4

Lab Sample ID: 890-2361-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 05:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 05:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 05:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/22 11:38	06/04/22 05:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 05:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/22 11:38	06/04/22 05:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				06/02/22 11:38	06/04/22 05:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/02/22 11:38	06/04/22 05:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 05:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 05:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				06/01/22 14:04	06/02/22 05:02	1
o-Terphenyl	113		70 - 130				06/01/22 14:04	06/02/22 05:02	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS21

Date Collected: 05/26/22 09:50

Date Received: 05/31/22 10:04

Sample Depth: 4

Lab Sample ID: 890-2361-19

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410		5.05		mg/Kg			06/02/22 19:13	1

Client Sample ID: FS53

Date Collected: 05/26/22 10:00

Date Received: 05/31/22 10:04

Sample Depth: 3

Lab Sample ID: 890-2361-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 05:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 05:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 05:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/22 11:38	06/04/22 05:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 05:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/22 11:38	06/04/22 05:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				06/02/22 11:38	06/04/22 05:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/02/22 11:38	06/04/22 05:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 05:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 05:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/02/22 05:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				06/01/22 14:04	06/02/22 05:22	1
o-Terphenyl	92		70 - 130				06/01/22 14:04	06/02/22 05:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	352		4.97		mg/Kg			06/02/22 19:21	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS54

Lab Sample ID: 890-2361-21

Date Collected: 05/26/22 09:55

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 06:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 06:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 06:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/02/22 11:38	06/04/22 06:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 06:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/02/22 11:38	06/04/22 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/02/22 11:38	06/04/22 06:01	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/02/22 11:38	06/04/22 06:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:08	06/02/22 03:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:08	06/02/22 03:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:08	06/02/22 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	06/01/22 14:08	06/02/22 03:41	1
o-Terphenyl	104		70 - 130	06/01/22 14:08	06/02/22 03:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	678		4.99		mg/Kg			06/02/22 19:29	1

Client Sample ID: SW01

Lab Sample ID: 890-2361-22

Date Collected: 05/26/22 09:00

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/22 11:38	06/04/22 06:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/22 11:38	06/04/22 06:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/22 11:38	06/04/22 06:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/22 11:38	06/04/22 06:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/22 11:38	06/04/22 06:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/22 11:38	06/04/22 06:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/02/22 11:38	06/04/22 06:22	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: SW01

Lab Sample ID: 890-2361-22

Date Collected: 05/26/22 09:00

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	06/02/22 11:38	06/04/22 06:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:08	06/02/22 04:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:08	06/02/22 04:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:08	06/02/22 04:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				06/01/22 14:08	06/02/22 04:01	1
o-Terphenyl	96		70 - 130				06/01/22 14:08	06/02/22 04:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	181		5.00		mg/Kg			06/02/22 19:37	1

Client Sample ID: SW02

Lab Sample ID: 890-2361-23

Date Collected: 05/26/22 09:05

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 06:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 06:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 06:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/22 11:38	06/04/22 06:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 06:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/22 11:38	06/04/22 06:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	06/02/22 11:38	06/04/22 06:42	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/02/22 11:38	06/04/22 06:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: SW02

Date Collected: 05/26/22 09:05

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

Lab Sample ID: 890-2361-23

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:08	06/02/22 04:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:08	06/02/22 04:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:08	06/02/22 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				06/01/22 14:08	06/02/22 04:21	1
o-Terphenyl	101		70 - 130				06/01/22 14:08	06/02/22 04:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.3		4.97		mg/Kg			06/04/22 03:09	1

Client Sample ID: SW03

Date Collected: 05/26/22 09:10

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

Lab Sample ID: 890-2361-24

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 07:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 07:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 07:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/22 11:38	06/04/22 07:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 07:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/22 11:38	06/04/22 07:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				06/02/22 11:38	06/04/22 07:02	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/02/22 11:38	06/04/22 07:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:08	06/02/22 04:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:08	06/02/22 04:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:08	06/02/22 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				06/01/22 14:08	06/02/22 04:41	1
o-Terphenyl	91		70 - 130				06/01/22 14:08	06/02/22 04:41	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: SW03

Date Collected: 05/26/22 09:10

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

Lab Sample ID: 890-2361-24

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.2		4.95		mg/Kg			06/04/22 03:18	1

Client Sample ID: SW04

Date Collected: 05/26/22 09:15

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

Lab Sample ID: 890-2361-25

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 08:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 08:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 08:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/02/22 11:38	06/04/22 08:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 08:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/02/22 11:38	06/04/22 08:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				06/02/22 11:38	06/04/22 08:52	1
1,4-Difluorobenzene (Surr)	101		70 - 130				06/02/22 11:38	06/04/22 08:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:08	06/02/22 05:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:08	06/02/22 05:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:08	06/02/22 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				06/01/22 14:08	06/02/22 05:02	1
o-Terphenyl	99		70 - 130				06/01/22 14:08	06/02/22 05:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.7		4.95		mg/Kg			06/04/22 03:28	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: SW05

Lab Sample ID: 890-2361-26

Date Collected: 05/27/22 10:40

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 09:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 09:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 09:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/02/22 11:38	06/04/22 09:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 09:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/02/22 11:38	06/04/22 09:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/02/22 11:38	06/04/22 09:13	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/02/22 11:38	06/04/22 09:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:08	06/02/22 05:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:08	06/02/22 05:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:08	06/02/22 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	06/01/22 14:08	06/02/22 05:22	1
o-Terphenyl	101		70 - 130	06/01/22 14:08	06/02/22 05:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		5.00		mg/Kg			06/04/22 03:37	1

Client Sample ID: SW06

Lab Sample ID: 890-2361-27

Date Collected: 05/27/22 10:45

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/02/22 11:38	06/04/22 09:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/02/22 11:38	06/04/22 09:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/02/22 11:38	06/04/22 09:33	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/02/22 11:38	06/04/22 09:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/02/22 11:38	06/04/22 09:33	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/02/22 11:38	06/04/22 09:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/02/22 11:38	06/04/22 09:33	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: SW06

Lab Sample ID: 890-2361-27

Date Collected: 05/27/22 10:45

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	06/02/22 11:38	06/04/22 09:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		06/01/22 16:47	06/02/22 11:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 16:47	06/02/22 11:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 16:47	06/02/22 11:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				06/01/22 16:47	06/02/22 11:41	1
o-Terphenyl	134	S1+	70 - 130				06/01/22 16:47	06/02/22 11:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.8		4.98		mg/Kg			06/04/22 03:46	1

Client Sample ID: SW07

Lab Sample ID: 890-2361-28

Date Collected: 05/27/22 10:50

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 09:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 09:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 09:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/22 11:38	06/04/22 09:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 09:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/22 11:38	06/04/22 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	06/02/22 11:38	06/04/22 09:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/02/22 11:38	06/04/22 09:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/22 09:37	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: SW07

Lab Sample ID: 890-2361-28

Date Collected: 05/27/22 10:50

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 16:47	06/02/22 12:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 16:47	06/02/22 12:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 16:47	06/02/22 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				06/01/22 16:47	06/02/22 12:45	1
o-Terphenyl	134	S1+	70 - 130				06/01/22 16:47	06/02/22 12:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.63		4.99		mg/Kg			06/04/22 03:55	1

Client Sample ID: SW08

Lab Sample ID: 890-2361-29

Date Collected: 05/27/22 10:55

Matrix: Solid

Date Received: 05/31/22 10:04

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 10:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 10:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 10:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/22 11:38	06/04/22 10:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:38	06/04/22 10:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/22 11:38	06/04/22 10:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				06/02/22 11:38	06/04/22 10:14	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/02/22 11:38	06/04/22 10:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 16:47	06/02/22 13:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 16:47	06/02/22 13:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 16:47	06/02/22 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				06/01/22 16:47	06/02/22 13:06	1
o-Terphenyl	102		70 - 130				06/01/22 16:47	06/02/22 13:06	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: SW08
Date Collected: 05/27/22 10:55
Date Received: 05/31/22 10:04
Sample Depth: 0 - 4

Lab Sample ID: 890-2361-29
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		5.04		mg/Kg			06/04/22 04:04	1

Surrogate Summary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-2361-1	FS01	108	98
890-2361-2	FS02	107	97
890-2361-3	FS03	107	99
890-2361-4	FS04	110	99
890-2361-5	FS05	113	99
890-2361-6	FS06	111	99
890-2361-7	FS07	115	100
890-2361-8	FS08	115	102
890-2361-9	FS11	111	99
890-2361-10	FS12	107	98
890-2361-11	FS13	101	97
890-2361-12	FS14	113	99
890-2361-13	FS15	109	99
890-2361-14	FS16	110	97
890-2361-15	FS17	113	102
890-2361-15 MS	FS17	107	104
890-2361-15 MSD	FS17	105	101
890-2361-16	FS18	110	100
890-2361-17	FS19	108	100
890-2361-18	FS20	109	101
890-2361-19	FS21	113	102
890-2361-20	FS53	107	100
890-2361-21	FS54	107	100
890-2361-22	SW01	114	98
890-2361-23	SW02	115	97
890-2361-24	SW03	108	99
890-2361-25	SW04	113	101
890-2361-26	SW05	106	101
890-2361-27	SW06	106	99
890-2361-28	SW07	116	102
890-2361-29	SW08	112	99
LCS 880-26733/1-A	Lab Control Sample	109	101
LCS 880-26735/1-A	Lab Control Sample	101	100
LCSD 880-26733/2-A	Lab Control Sample Dup	105	100
LCSD 880-26735/2-A	Lab Control Sample Dup	104	98
MB 880-26733/5-A	Method Blank	99	98
MB 880-26735/5-A	Method Blank	101	96
MB 880-26787/8	Method Blank	101	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-2357-A-1-C MS	Matrix Spike	93	86

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Surrogate Summary

Client: Ensolum

Job ID: 890-2361-1

Project/Site: North Brush Draw Federal 35 #012H

SDG: 03A1987015

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2357-A-1-D MSD	Matrix Spike Duplicate	92	86
890-2361-1	FS01	107	120
890-2361-1 MS	FS01	92	89
890-2361-1 MSD	FS01	92	92
890-2361-2	FS02	90	101
890-2361-3	FS03	94	102
890-2361-4	FS04	89	98
890-2361-5	FS05	90	99
890-2361-6	FS06	97	109
890-2361-7	FS07	92	100
890-2361-8	FS08	79	88
890-2361-9	FS11	98	110
890-2361-10	FS12	85	92
890-2361-11	FS13	91	98
890-2361-12	FS14	82	91
890-2361-13	FS15	87	96
890-2361-14	FS16	93	103
890-2361-15	FS17	95	110
890-2361-16	FS18	98	108
890-2361-17	FS19	109	123
890-2361-18	FS20	94	105
890-2361-19	FS21	102	113
890-2361-20	FS53	84	92
890-2361-21	FS54	97	104
890-2361-22	SW01	93	96
890-2361-23	SW02	97	101
890-2361-24	SW03	90	91
890-2361-25	SW04	95	99
890-2361-26	SW05	95	101
890-2361-27	SW06	126	134 S1+
890-2361-27 MS	SW06	118	122
890-2361-27 MSD	SW06	114	119
890-2361-28	SW07	126	134 S1+
890-2361-29	SW08	100	102
LCS 880-26656/2-A	Lab Control Sample	100	103
LCS 880-26657/2-A	Lab Control Sample	115	112
LCS 880-26686/2-A	Lab Control Sample	114	116
LCSD 880-26656/3-A	Lab Control Sample Dup	97	98
LCSD 880-26657/3-A	Lab Control Sample Dup	104	99
LCSD 880-26686/3-A	Lab Control Sample Dup	114	116
MB 880-26656/1-A	Method Blank	92	108
MB 880-26657/1-A	Method Blank	106	118
MB 880-26686/1-A	Method Blank	100	108

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26733/5-A

Matrix: Solid

Analysis Batch: 26787

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/04/22 20:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/04/22 20:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/04/22 20:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/02/22 11:32	06/04/22 20:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:32	06/04/22 20:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/02/22 11:32	06/04/22 20:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/02/22 11:32	06/04/22 20:57	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/02/22 11:32	06/04/22 20:57	1

Lab Sample ID: LCS 880-26733/1-A

Matrix: Solid

Analysis Batch: 26787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1029		mg/Kg		103	70 - 130
Toluene	0.100	0.1145		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2465		mg/Kg		123	70 - 130
o-Xylene	0.100	0.1205		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-26733/2-A

Matrix: Solid

Analysis Batch: 26787

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1055		mg/Kg		106	70 - 130	3	35
Toluene	0.100	0.1090		mg/Kg		109	70 - 130	5	35
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2289		mg/Kg		114	70 - 130	7	35
o-Xylene	0.100	0.1122		mg/Kg		112	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-26735/5-A

Matrix: Solid

Analysis Batch: 26787

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 03:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 03:30	1

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QC Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

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

Lab Sample ID: MB 880-26735/5-A

Matrix: Solid

Analysis Batch: 26787

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 03:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/02/22 11:38	06/04/22 03:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:38	06/04/22 03:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/02/22 11:38	06/04/22 03:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/02/22 11:38	06/04/22 03:30	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/02/22 11:38	06/04/22 03:30	1

Lab Sample ID: LCS 880-26735/1-A

Matrix: Solid

Analysis Batch: 26787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08414		mg/Kg		84	70 - 130
Toluene	0.100	0.08979		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08326		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1891		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09494		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-26735/2-A

Matrix: Solid

Analysis Batch: 26787

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26735

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08489		mg/Kg		85	70 - 130	1	35
Toluene	0.100	0.09792		mg/Kg		98	70 - 130	9	35
Ethylbenzene	0.100	0.09184		mg/Kg		92	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	10	35
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-2361-15 MS

Matrix: Solid

Analysis Batch: 26787

Client Sample ID: FS17

Prep Type: Total/NA

Prep Batch: 26735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08242		mg/Kg		82	70 - 130
Toluene	<0.00200	U	0.100	0.08878		mg/Kg		89	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08206		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1855		mg/Kg		93	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

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

Lab Sample ID: 890-2361-15 MS

Matrix: Solid

Analysis Batch: 26787

Client Sample ID: FS17

Prep Type: Total/NA

Prep Batch: 26735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00200	U	0.100	0.09250		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-2361-15 MSD

Matrix: Solid

Analysis Batch: 26787

Client Sample ID: FS17

Prep Type: Total/NA

Prep Batch: 26735

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.08270		mg/Kg		84	70 - 130	0	35
Toluene	<0.00200	U	0.0990	0.08892		mg/Kg		90	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0990	0.08223		mg/Kg		82	70 - 130	0	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1857		mg/Kg		94	70 - 130	0	35
o-Xylene	<0.00200	U	0.0990	0.09185		mg/Kg		93	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-26787/8

Matrix: Solid

Analysis Batch: 26787

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			06/03/22 15:24	1
Toluene	<0.00200	U	0.00200		mg/Kg			06/03/22 15:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			06/03/22 15:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			06/03/22 15:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			06/03/22 15:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			06/03/22 15:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130		06/03/22 15:24	1
1,4-Difluorobenzene (Surr)	100		70 - 130		06/03/22 15:24	1

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

Lab Sample ID: MB 880-26656/1-A

Matrix: Solid

Analysis Batch: 26611

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/01/22 20:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/01/22 20:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:04	06/01/22 20:42	1

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QC Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	06/01/22 14:04	06/01/22 20:42	1
o-Terphenyl	108		70 - 130	06/01/22 14:04	06/01/22 20:42	1

Lab Sample ID: LCS 880-26656/2-A

Matrix: Solid

Analysis Batch: 26611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	838.0		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	959.0		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-26656/3-A

Matrix: Solid

Analysis Batch: 26611

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26656

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	868.2		mg/Kg		87	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	920.3		mg/Kg		92	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-2361-1 MS

Matrix: Solid

Analysis Batch: 26611

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 26656

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	897.2		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	863.3		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 890-2361-1 MSD

Matrix: Solid

Analysis Batch: 26611

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 26656

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	892.5		mg/Kg		89	70 - 130	1	20

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QC Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

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

Lab Sample ID: 890-2361-1 MSD

Matrix: Solid

Analysis Batch: 26611

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 26656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	<50.0	U	999	870.8		mg/Kg		87	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	92		70 - 130								

Lab Sample ID: MB 880-26657/1-A

Matrix: Solid

Analysis Batch: 26613

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26657

Analyte							Top Data							
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac					
	Result	Qualifier												
	Gasoline Range Organics (GRO)-C6-C10	<50.0 U								50.0	mg/Kg	06/01/22 14:08	06/01/22 20:42	1
	Diesel Range Organics (Over C10-C28)	<50.0 U								50.0	mg/Kg	06/01/22 14:08	06/01/22 20:42	1
Oil Range Organics (Over C28-C36)	<50.0 U	50.0	mg/Kg	06/01/22 14:08	06/01/22 20:42	1								
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac					
%Recovery	Qualifier													
1-Chlorooctane	106	70 - 130								06/01/22 14:08	06/01/22 20:42	1		
o-Terphenyl	118	70 - 130								06/01/22 14:08	06/01/22 20:42	1		

Lab Sample ID: LCS 880-26657/2-A

Matrix: Solid

Analysis Batch: 26613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26657

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	971.4		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1184		mg/Kg		118	70 - 130		

Lab Sample ID: LCSD 880-26657/3-A

Matrix: Solid

Analysis Batch: 26613

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26657

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	820.8		mg/Kg		82	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	1055		mg/Kg		105	70 - 130	12	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	99		70 - 130								

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QC Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

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

Lab Sample ID: 890-2357-A-1-C MS

Matrix: Solid

Analysis Batch: 26613

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26657

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	777.3		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	913.5		mg/Kg		89	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	86		70 - 130						

Lab Sample ID: 890-2357-A-1-D MSD

Matrix: Solid

Analysis Batch: 26613

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26657

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	783.4		mg/Kg		78	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	919.9		mg/Kg		90	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	86		70 - 130								

Lab Sample ID: MB 880-26686/1-A

Matrix: Solid

Analysis Batch: 26698

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 16:47	06/02/22 10:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 16:47	06/02/22 10:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 16:47	06/02/22 10:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				06/01/22 16:47	06/02/22 10:38	1
o-Terphenyl	108		70 - 130				06/01/22 16:47	06/02/22 10:38	1

Lab Sample ID: LCS 880-26686/2-A

Matrix: Solid

Analysis Batch: 26698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	912.2		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	981.2		mg/Kg		98	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

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

Lab Sample ID: LCS 880-26686/2-A

Matrix: Solid

Analysis Batch: 26698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26686

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-26686/3-A

Matrix: Solid

Analysis Batch: 26698

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26686

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	920.1		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	999.8		mg/Kg		100	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: 890-2361-27 MS

Matrix: Solid

Analysis Batch: 26698

Client Sample ID: SW06

Prep Type: Total/NA

Prep Batch: 26686

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 F1	997	1303		mg/Kg		127	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1216		mg/Kg		122	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: 890-2361-27 MSD

Matrix: Solid

Analysis Batch: 26698

Client Sample ID: SW06

Prep Type: Total/NA

Prep Batch: 26686

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 F1	1000	1390	F1	mg/Kg		135	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1190		mg/Kg		119	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	119		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26645/1-A

Matrix: Solid

Analysis Batch: 26688

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/02/22 15:40	1

Lab Sample ID: LCS 880-26645/2-A

Matrix: Solid

Analysis Batch: 26688

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.0		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-26645/3-A

Matrix: Solid

Analysis Batch: 26688

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	244.8		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-2361-13 MS

Matrix: Solid

Analysis Batch: 26688

Client Sample ID: FS15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	117		250	357.8		mg/Kg		96	90 - 110

Lab Sample ID: 890-2361-13 MSD

Matrix: Solid

Analysis Batch: 26688

Client Sample ID: FS15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	117		250	357.5		mg/Kg		96	90 - 110	0	20

Lab Sample ID: MB 880-26644/1-A

Matrix: Solid

Analysis Batch: 26760

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/02/22 20:16	1

Lab Sample ID: LCS 880-26644/2-A

Matrix: Solid

Analysis Batch: 26760

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.4		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-26644/3-A

Matrix: Solid

Analysis Batch: 26760

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	243.4		mg/Kg		97	90 - 110	1	20

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QC Sample Results

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2361-2 MS

Matrix: Solid

Analysis Batch: 26760

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	969	F1 F2	1260	1898	F1	mg/Kg		74	90 - 110

Lab Sample ID: 890-2361-2 MSD

Matrix: Solid

Analysis Batch: 26760

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	969	F1 F2	1260	2645	F1 F2	mg/Kg		133	90 - 110	33	20

Lab Sample ID: MB 880-26727/1-A

Matrix: Solid

Analysis Batch: 26784

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/03/22 23:28	1

Lab Sample ID: LCS 880-26727/2-A

Matrix: Solid

Analysis Batch: 26784

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.8		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-26727/3-A

Matrix: Solid

Analysis Batch: 26784

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	239.3		mg/Kg		96	90 - 110	2	20

Lab Sample ID: 880-15393-A-1-E MS

Matrix: Solid

Analysis Batch: 26784

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	919	F1	249	1071	F1	mg/Kg		61	90 - 110

Lab Sample ID: 880-15393-A-1-F MSD

Matrix: Solid

Analysis Batch: 26784

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	919	F1	249	1081	F1	mg/Kg		65	90 - 110	1	20

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QC Association Summary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

GC VOA

Prep Batch: 26733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-1	FS01	Total/NA	Solid	5035	
890-2361-2	FS02	Total/NA	Solid	5035	
890-2361-3	FS03	Total/NA	Solid	5035	
890-2361-4	FS04	Total/NA	Solid	5035	
890-2361-5	FS05	Total/NA	Solid	5035	
890-2361-6	FS06	Total/NA	Solid	5035	
890-2361-7	FS07	Total/NA	Solid	5035	
890-2361-8	FS08	Total/NA	Solid	5035	
890-2361-9	FS11	Total/NA	Solid	5035	
890-2361-10	FS12	Total/NA	Solid	5035	
890-2361-11	FS13	Total/NA	Solid	5035	
890-2361-12	FS14	Total/NA	Solid	5035	
890-2361-13	FS15	Total/NA	Solid	5035	
890-2361-14	FS16	Total/NA	Solid	5035	
MB 880-26733/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26733/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26733/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 26735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-15	FS17	Total/NA	Solid	5035	
890-2361-16	FS18	Total/NA	Solid	5035	
890-2361-17	FS19	Total/NA	Solid	5035	
890-2361-18	FS20	Total/NA	Solid	5035	
890-2361-19	FS21	Total/NA	Solid	5035	
890-2361-20	FS53	Total/NA	Solid	5035	
890-2361-21	FS54	Total/NA	Solid	5035	
890-2361-22	SW01	Total/NA	Solid	5035	
890-2361-23	SW02	Total/NA	Solid	5035	
890-2361-24	SW03	Total/NA	Solid	5035	
890-2361-25	SW04	Total/NA	Solid	5035	
890-2361-26	SW05	Total/NA	Solid	5035	
890-2361-27	SW06	Total/NA	Solid	5035	
890-2361-28	SW07	Total/NA	Solid	5035	
890-2361-29	SW08	Total/NA	Solid	5035	
MB 880-26735/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26735/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26735/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2361-15 MS	FS17	Total/NA	Solid	5035	
890-2361-15 MSD	FS17	Total/NA	Solid	5035	

Analysis Batch: 26787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-1	FS01	Total/NA	Solid	8021B	26733
890-2361-2	FS02	Total/NA	Solid	8021B	26733
890-2361-3	FS03	Total/NA	Solid	8021B	26733
890-2361-4	FS04	Total/NA	Solid	8021B	26733
890-2361-5	FS05	Total/NA	Solid	8021B	26733
890-2361-6	FS06	Total/NA	Solid	8021B	26733
890-2361-7	FS07	Total/NA	Solid	8021B	26733
890-2361-8	FS08	Total/NA	Solid	8021B	26733

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QC Association Summary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

GC VOA (Continued)

Analysis Batch: 26787 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-9	FS11	Total/NA	Solid	8021B	26733
890-2361-10	FS12	Total/NA	Solid	8021B	26733
890-2361-11	FS13	Total/NA	Solid	8021B	26733
890-2361-12	FS14	Total/NA	Solid	8021B	26733
890-2361-13	FS15	Total/NA	Solid	8021B	26733
890-2361-14	FS16	Total/NA	Solid	8021B	26733
890-2361-15	FS17	Total/NA	Solid	8021B	26735
890-2361-16	FS18	Total/NA	Solid	8021B	26735
890-2361-17	FS19	Total/NA	Solid	8021B	26735
890-2361-18	FS20	Total/NA	Solid	8021B	26735
890-2361-19	FS21	Total/NA	Solid	8021B	26735
890-2361-20	FS53	Total/NA	Solid	8021B	26735
890-2361-21	FS54	Total/NA	Solid	8021B	26735
890-2361-22	SW01	Total/NA	Solid	8021B	26735
890-2361-23	SW02	Total/NA	Solid	8021B	26735
890-2361-24	SW03	Total/NA	Solid	8021B	26735
890-2361-25	SW04	Total/NA	Solid	8021B	26735
890-2361-26	SW05	Total/NA	Solid	8021B	26735
890-2361-27	SW06	Total/NA	Solid	8021B	26735
890-2361-28	SW07	Total/NA	Solid	8021B	26735
890-2361-29	SW08	Total/NA	Solid	8021B	26735
MB 880-26733/5-A	Method Blank	Total/NA	Solid	8021B	26733
MB 880-26735/5-A	Method Blank	Total/NA	Solid	8021B	26735
MB 880-26787/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-26733/1-A	Lab Control Sample	Total/NA	Solid	8021B	26733
LCS 880-26735/1-A	Lab Control Sample	Total/NA	Solid	8021B	26735
LCSD 880-26733/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26733
LCSD 880-26735/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26735
890-2361-15 MS	FS17	Total/NA	Solid	8021B	26735
890-2361-15 MSD	FS17	Total/NA	Solid	8021B	26735

Analysis Batch: 26913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-1	FS01	Total/NA	Solid	Total BTEX	
890-2361-2	FS02	Total/NA	Solid	Total BTEX	
890-2361-3	FS03	Total/NA	Solid	Total BTEX	
890-2361-4	FS04	Total/NA	Solid	Total BTEX	
890-2361-5	FS05	Total/NA	Solid	Total BTEX	
890-2361-6	FS06	Total/NA	Solid	Total BTEX	
890-2361-7	FS07	Total/NA	Solid	Total BTEX	
890-2361-8	FS08	Total/NA	Solid	Total BTEX	
890-2361-9	FS11	Total/NA	Solid	Total BTEX	
890-2361-10	FS12	Total/NA	Solid	Total BTEX	
890-2361-11	FS13	Total/NA	Solid	Total BTEX	
890-2361-12	FS14	Total/NA	Solid	Total BTEX	
890-2361-13	FS15	Total/NA	Solid	Total BTEX	
890-2361-14	FS16	Total/NA	Solid	Total BTEX	
890-2361-15	FS17	Total/NA	Solid	Total BTEX	
890-2361-16	FS18	Total/NA	Solid	Total BTEX	
890-2361-17	FS19	Total/NA	Solid	Total BTEX	
890-2361-18	FS20	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

GC VOA (Continued)

Analysis Batch: 26913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-19	FS21	Total/NA	Solid	Total BTEX	
890-2361-20	FS53	Total/NA	Solid	Total BTEX	
890-2361-21	FS54	Total/NA	Solid	Total BTEX	
890-2361-22	SW01	Total/NA	Solid	Total BTEX	
890-2361-23	SW02	Total/NA	Solid	Total BTEX	
890-2361-24	SW03	Total/NA	Solid	Total BTEX	
890-2361-25	SW04	Total/NA	Solid	Total BTEX	
890-2361-26	SW05	Total/NA	Solid	Total BTEX	
890-2361-27	SW06	Total/NA	Solid	Total BTEX	
890-2361-28	SW07	Total/NA	Solid	Total BTEX	
890-2361-29	SW08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 26611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-1	FS01	Total/NA	Solid	8015B NM	26656
890-2361-2	FS02	Total/NA	Solid	8015B NM	26656
890-2361-3	FS03	Total/NA	Solid	8015B NM	26656
890-2361-4	FS04	Total/NA	Solid	8015B NM	26656
890-2361-5	FS05	Total/NA	Solid	8015B NM	26656
890-2361-6	FS06	Total/NA	Solid	8015B NM	26656
890-2361-7	FS07	Total/NA	Solid	8015B NM	26656
890-2361-8	FS08	Total/NA	Solid	8015B NM	26656
890-2361-9	FS11	Total/NA	Solid	8015B NM	26656
890-2361-10	FS12	Total/NA	Solid	8015B NM	26656
890-2361-11	FS13	Total/NA	Solid	8015B NM	26656
890-2361-12	FS14	Total/NA	Solid	8015B NM	26656
890-2361-13	FS15	Total/NA	Solid	8015B NM	26656
890-2361-14	FS16	Total/NA	Solid	8015B NM	26656
890-2361-15	FS17	Total/NA	Solid	8015B NM	26656
890-2361-16	FS18	Total/NA	Solid	8015B NM	26656
890-2361-17	FS19	Total/NA	Solid	8015B NM	26656
890-2361-18	FS20	Total/NA	Solid	8015B NM	26656
890-2361-19	FS21	Total/NA	Solid	8015B NM	26656
890-2361-20	FS53	Total/NA	Solid	8015B NM	26656
MB 880-26656/1-A	Method Blank	Total/NA	Solid	8015B NM	26656
LCS 880-26656/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26656
LCSD 880-26656/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26656
890-2361-1 MS	FS01	Total/NA	Solid	8015B NM	26656
890-2361-1 MSD	FS01	Total/NA	Solid	8015B NM	26656

Analysis Batch: 26613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-21	FS54	Total/NA	Solid	8015B NM	26657
890-2361-22	SW01	Total/NA	Solid	8015B NM	26657
890-2361-23	SW02	Total/NA	Solid	8015B NM	26657
890-2361-24	SW03	Total/NA	Solid	8015B NM	26657
890-2361-25	SW04	Total/NA	Solid	8015B NM	26657
890-2361-26	SW05	Total/NA	Solid	8015B NM	26657
MB 880-26657/1-A	Method Blank	Total/NA	Solid	8015B NM	26657

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QC Association Summary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

GC Semi VOA (Continued)

Analysis Batch: 26613 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-26657/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26657
LCSD 880-26657/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26657
890-2357-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	26657
890-2357-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26657

Prep Batch: 26656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-1	FS01	Total/NA	Solid	8015NM Prep	
890-2361-2	FS02	Total/NA	Solid	8015NM Prep	
890-2361-3	FS03	Total/NA	Solid	8015NM Prep	
890-2361-4	FS04	Total/NA	Solid	8015NM Prep	
890-2361-5	FS05	Total/NA	Solid	8015NM Prep	
890-2361-6	FS06	Total/NA	Solid	8015NM Prep	
890-2361-7	FS07	Total/NA	Solid	8015NM Prep	
890-2361-8	FS08	Total/NA	Solid	8015NM Prep	
890-2361-9	FS11	Total/NA	Solid	8015NM Prep	
890-2361-10	FS12	Total/NA	Solid	8015NM Prep	
890-2361-11	FS13	Total/NA	Solid	8015NM Prep	
890-2361-12	FS14	Total/NA	Solid	8015NM Prep	
890-2361-13	FS15	Total/NA	Solid	8015NM Prep	
890-2361-14	FS16	Total/NA	Solid	8015NM Prep	
890-2361-15	FS17	Total/NA	Solid	8015NM Prep	
890-2361-16	FS18	Total/NA	Solid	8015NM Prep	
890-2361-17	FS19	Total/NA	Solid	8015NM Prep	
890-2361-18	FS20	Total/NA	Solid	8015NM Prep	
890-2361-19	FS21	Total/NA	Solid	8015NM Prep	
890-2361-20	FS53	Total/NA	Solid	8015NM Prep	
MB 880-26656/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26656/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26656/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2361-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-2361-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Prep Batch: 26657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-21	FS54	Total/NA	Solid	8015NM Prep	
890-2361-22	SW01	Total/NA	Solid	8015NM Prep	
890-2361-23	SW02	Total/NA	Solid	8015NM Prep	
890-2361-24	SW03	Total/NA	Solid	8015NM Prep	
890-2361-25	SW04	Total/NA	Solid	8015NM Prep	
890-2361-26	SW05	Total/NA	Solid	8015NM Prep	
MB 880-26657/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26657/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26657/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2357-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2357-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 26686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-27	SW06	Total/NA	Solid	8015NM Prep	
890-2361-28	SW07	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

GC Semi VOA (Continued)

Prep Batch: 26686 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-29	SW08	Total/NA	Solid	8015NM Prep	
MB 880-26686/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26686/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26686/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2361-27 MS	SW06	Total/NA	Solid	8015NM Prep	
890-2361-27 MSD	SW06	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-27	SW06	Total/NA	Solid	8015B NM	26686
890-2361-28	SW07	Total/NA	Solid	8015B NM	26686
890-2361-29	SW08	Total/NA	Solid	8015B NM	26686
MB 880-26686/1-A	Method Blank	Total/NA	Solid	8015B NM	26686
LCS 880-26686/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26686
LCSD 880-26686/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26686
890-2361-27 MS	SW06	Total/NA	Solid	8015B NM	26686
890-2361-27 MSD	SW06	Total/NA	Solid	8015B NM	26686

Analysis Batch: 26711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-1	FS01	Total/NA	Solid	8015 NM	
890-2361-2	FS02	Total/NA	Solid	8015 NM	
890-2361-3	FS03	Total/NA	Solid	8015 NM	
890-2361-4	FS04	Total/NA	Solid	8015 NM	
890-2361-5	FS05	Total/NA	Solid	8015 NM	
890-2361-6	FS06	Total/NA	Solid	8015 NM	
890-2361-7	FS07	Total/NA	Solid	8015 NM	
890-2361-8	FS08	Total/NA	Solid	8015 NM	
890-2361-9	FS11	Total/NA	Solid	8015 NM	
890-2361-10	FS12	Total/NA	Solid	8015 NM	
890-2361-11	FS13	Total/NA	Solid	8015 NM	
890-2361-12	FS14	Total/NA	Solid	8015 NM	
890-2361-13	FS15	Total/NA	Solid	8015 NM	
890-2361-14	FS16	Total/NA	Solid	8015 NM	
890-2361-15	FS17	Total/NA	Solid	8015 NM	
890-2361-16	FS18	Total/NA	Solid	8015 NM	
890-2361-17	FS19	Total/NA	Solid	8015 NM	
890-2361-18	FS20	Total/NA	Solid	8015 NM	
890-2361-19	FS21	Total/NA	Solid	8015 NM	
890-2361-20	FS53	Total/NA	Solid	8015 NM	
890-2361-21	FS54	Total/NA	Solid	8015 NM	
890-2361-22	SW01	Total/NA	Solid	8015 NM	
890-2361-23	SW02	Total/NA	Solid	8015 NM	
890-2361-24	SW03	Total/NA	Solid	8015 NM	
890-2361-25	SW04	Total/NA	Solid	8015 NM	
890-2361-26	SW05	Total/NA	Solid	8015 NM	
890-2361-27	SW06	Total/NA	Solid	8015 NM	
890-2361-28	SW07	Total/NA	Solid	8015 NM	
890-2361-29	SW08	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

HPLC/IC

Leach Batch: 26644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-1	FS01	Soluble	Solid	DI Leach	
890-2361-2	FS02	Soluble	Solid	DI Leach	
890-2361-3	FS03	Soluble	Solid	DI Leach	
890-2361-4	FS04	Soluble	Solid	DI Leach	
890-2361-5	FS05	Soluble	Solid	DI Leach	
890-2361-6	FS06	Soluble	Solid	DI Leach	
890-2361-7	FS07	Soluble	Solid	DI Leach	
890-2361-8	FS08	Soluble	Solid	DI Leach	
890-2361-9	FS11	Soluble	Solid	DI Leach	
890-2361-10	FS12	Soluble	Solid	DI Leach	
890-2361-11	FS13	Soluble	Solid	DI Leach	
MB 880-26644/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26644/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26644/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2361-2 MS	FS02	Soluble	Solid	DI Leach	
890-2361-2 MSD	FS02	Soluble	Solid	DI Leach	

Leach Batch: 26645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-12	FS14	Soluble	Solid	DI Leach	
890-2361-13	FS15	Soluble	Solid	DI Leach	
890-2361-14	FS16	Soluble	Solid	DI Leach	
890-2361-15	FS17	Soluble	Solid	DI Leach	
890-2361-16	FS18	Soluble	Solid	DI Leach	
890-2361-17	FS19	Soluble	Solid	DI Leach	
890-2361-18	FS20	Soluble	Solid	DI Leach	
890-2361-19	FS21	Soluble	Solid	DI Leach	
890-2361-20	FS53	Soluble	Solid	DI Leach	
890-2361-21	FS54	Soluble	Solid	DI Leach	
890-2361-22	SW01	Soluble	Solid	DI Leach	
MB 880-26645/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26645/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26645/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2361-13 MS	FS15	Soluble	Solid	DI Leach	
890-2361-13 MSD	FS15	Soluble	Solid	DI Leach	

Analysis Batch: 26688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-12	FS14	Soluble	Solid	300.0	26645
890-2361-13	FS15	Soluble	Solid	300.0	26645
890-2361-14	FS16	Soluble	Solid	300.0	26645
890-2361-15	FS17	Soluble	Solid	300.0	26645
890-2361-16	FS18	Soluble	Solid	300.0	26645
890-2361-17	FS19	Soluble	Solid	300.0	26645
890-2361-18	FS20	Soluble	Solid	300.0	26645
890-2361-19	FS21	Soluble	Solid	300.0	26645
890-2361-20	FS53	Soluble	Solid	300.0	26645
890-2361-21	FS54	Soluble	Solid	300.0	26645
890-2361-22	SW01	Soluble	Solid	300.0	26645
MB 880-26645/1-A	Method Blank	Soluble	Solid	300.0	26645
LCS 880-26645/2-A	Lab Control Sample	Soluble	Solid	300.0	26645

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QC Association Summary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

HPLC/IC (Continued)

Analysis Batch: 26688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-26645/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26645
890-2361-13 MS	FS15	Soluble	Solid	300.0	26645
890-2361-13 MSD	FS15	Soluble	Solid	300.0	26645

Leach Batch: 26727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-23	SW02	Soluble	Solid	DI Leach	
890-2361-24	SW03	Soluble	Solid	DI Leach	
890-2361-25	SW04	Soluble	Solid	DI Leach	
890-2361-26	SW05	Soluble	Solid	DI Leach	
890-2361-27	SW06	Soluble	Solid	DI Leach	
890-2361-28	SW07	Soluble	Solid	DI Leach	
890-2361-29	SW08	Soluble	Solid	DI Leach	
MB 880-26727/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26727/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26727/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15393-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-15393-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 26760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-1	FS01	Soluble	Solid	300.0	26644
890-2361-2	FS02	Soluble	Solid	300.0	26644
890-2361-3	FS03	Soluble	Solid	300.0	26644
890-2361-4	FS04	Soluble	Solid	300.0	26644
890-2361-5	FS05	Soluble	Solid	300.0	26644
890-2361-6	FS06	Soluble	Solid	300.0	26644
890-2361-7	FS07	Soluble	Solid	300.0	26644
890-2361-8	FS08	Soluble	Solid	300.0	26644
890-2361-9	FS11	Soluble	Solid	300.0	26644
890-2361-10	FS12	Soluble	Solid	300.0	26644
890-2361-11	FS13	Soluble	Solid	300.0	26644
MB 880-26644/1-A	Method Blank	Soluble	Solid	300.0	26644
LCS 880-26644/2-A	Lab Control Sample	Soluble	Solid	300.0	26644
LCSD 880-26644/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26644
890-2361-2 MS	FS02	Soluble	Solid	300.0	26644
890-2361-2 MSD	FS02	Soluble	Solid	300.0	26644

Analysis Batch: 26784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2361-23	SW02	Soluble	Solid	300.0	26727
890-2361-24	SW03	Soluble	Solid	300.0	26727
890-2361-25	SW04	Soluble	Solid	300.0	26727
890-2361-26	SW05	Soluble	Solid	300.0	26727
890-2361-27	SW06	Soluble	Solid	300.0	26727
890-2361-28	SW07	Soluble	Solid	300.0	26727
890-2361-29	SW08	Soluble	Solid	300.0	26727
MB 880-26727/1-A	Method Blank	Soluble	Solid	300.0	26727
LCS 880-26727/2-A	Lab Control Sample	Soluble	Solid	300.0	26727
LCSD 880-26727/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26727
880-15393-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	26727

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QC Association Summary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

HPLC/IC (Continued)

Analysis Batch: 26784 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15393-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	26727

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

Lab Chronicle

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS01

Date Collected: 05/27/22 09:30

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-1

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	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 23:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/01/22 21:48	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26644	06/01/22 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			26760	06/03/22 15:38	CH	XEN MID

Client Sample ID: FS02

Date Collected: 05/27/22 09:35

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-2

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			4.98 g	5 mL	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 23:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/01/22 22:53	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	26644	06/01/22 10:56	CH	XEN MID
Soluble	Analysis	300.0		5			26760	06/03/22 15:46	CH	XEN MID

Client Sample ID: FS03

Date Collected: 05/27/22 09:40

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/05/22 00:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/01/22 23:14	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26644	06/01/22 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			26760	06/03/22 16:09	CH	XEN MID

Client Sample ID: FS04

Date Collected: 05/27/22 09:45

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/05/22 00:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS04

Lab Sample ID: 890-2361-4

Date Collected: 05/27/22 09:45

Matrix: Solid

Date Received: 05/31/22 10:04

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			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/01/22 23:36	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26644	06/01/22 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			26760	06/03/22 16:17	CH	XEN MID

Client Sample ID: FS05

Lab Sample ID: 890-2361-5

Date Collected: 05/27/22 09:50

Matrix: Solid

Date Received: 05/31/22 10:04

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	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/05/22 02:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/01/22 23:56	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26644	06/01/22 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			26760	06/03/22 16:41	CH	XEN MID

Client Sample ID: FS06

Lab Sample ID: 890-2361-6

Date Collected: 05/27/22 09:55

Matrix: Solid

Date Received: 05/31/22 10:04

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	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/05/22 02:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 00:16	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26644	06/01/22 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			26760	06/03/22 16:49	CH	XEN MID

Client Sample ID: FS07

Lab Sample ID: 890-2361-7

Date Collected: 05/27/22 10:00

Matrix: Solid

Date Received: 05/31/22 10:04

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	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/05/22 03:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 00:37	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS07

Date Collected: 05/27/22 10:00

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-7

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			4.99 g	50 mL	26644	06/01/22 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			26760	06/03/22 16:57	CH	XEN MID

Client Sample ID: FS08

Date Collected: 05/27/22 10:05

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-8

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			5.01 g	5 mL	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/05/22 03:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 00:57	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26644	06/01/22 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			26760	06/03/22 17:05	CH	XEN MID

Client Sample ID: FS11

Date Collected: 05/27/22 10:20

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-9

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			5.03 g	5 mL	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/05/22 03:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 01:17	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26644	06/01/22 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			26760	06/03/22 17:13	CH	XEN MID

Client Sample ID: FS12

Date Collected: 05/27/22 10:25

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-10

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			5.01 g	5 mL	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/05/22 04:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 01:38	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26644	06/01/22 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			26760	06/03/22 17:21	CH	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS13

Date Collected: 05/27/22 10:30

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-11

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			5.03 g	5 mL	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/05/22 04:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 02:19	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26644	06/01/22 10:56	CH	XEN MID
Soluble	Analysis	300.0		1			26760	06/03/22 17:29	CH	XEN MID

Client Sample ID: FS14

Date Collected: 05/27/22 10:35

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/05/22 04:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 02:39	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26645	06/01/22 11:02	CH	XEN MID
Soluble	Analysis	300.0		1			26688	06/02/22 17:46	CH	XEN MID

Client Sample ID: FS15

Date Collected: 05/26/22 09:20

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-13

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	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/05/22 05:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 03:00	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26645	06/01/22 11:02	CH	XEN MID
Soluble	Analysis	300.0		1			26688	06/02/22 17:54	CH	XEN MID

Client Sample ID: FS16

Date Collected: 05/26/22 09:25

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-14

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	26733	06/02/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/05/22 05:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS16

Date Collected: 05/26/22 09:25

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-14

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			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 03:20	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26645	06/01/22 11:02	CH	XEN MID
Soluble	Analysis	300.0		1			26688	06/02/22 18:33	CH	XEN MID

Client Sample ID: FS17

Date Collected: 05/26/22 09:30

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-15

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 03:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 03:41	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	26645	06/01/22 11:02	CH	XEN MID
Soluble	Analysis	300.0		1			26688	06/02/22 18:41	CH	XEN MID

Client Sample ID: FS18

Date Collected: 05/26/22 09:35

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-16

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 04:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 04:01	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26645	06/01/22 11:02	CH	XEN MID
Soluble	Analysis	300.0		1			26688	06/02/22 18:49	CH	XEN MID

Client Sample ID: FS19

Date Collected: 05/26/22 09:40

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-17

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 04:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 04:21	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS19

Date Collected: 05/26/22 09:40

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-17

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			5.02 g	50 mL	26645	06/01/22 11:02	CH	XEN MID
Soluble	Analysis	300.0		5			26688	06/02/22 18:57	CH	XEN MID

Client Sample ID: FS20

Date Collected: 05/26/22 09:45

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-18

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			5.04 g	5 mL	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 05:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 04:41	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26645	06/01/22 11:02	CH	XEN MID
Soluble	Analysis	300.0		5			26688	06/02/22 19:05	CH	XEN MID

Client Sample ID: FS21

Date Collected: 05/26/22 09:50

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-19

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 05:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 05:02	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	26645	06/01/22 11:02	CH	XEN MID
Soluble	Analysis	300.0		1			26688	06/02/22 19:13	CH	XEN MID

Client Sample ID: FS53

Date Collected: 05/26/22 10:00

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-20

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 05:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26656	06/01/22 14:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26611	06/02/22 05:22	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26645	06/01/22 11:02	CH	XEN MID
Soluble	Analysis	300.0		1			26688	06/02/22 19:21	CH	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: FS54

Date Collected: 05/26/22 09:55

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-21

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 06:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26657	06/01/22 14:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26613	06/02/22 03:41	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26645	06/01/22 11:02	CH	XEN MID
Soluble	Analysis	300.0		1			26688	06/02/22 19:29	CH	XEN MID

Client Sample ID: SW01

Date Collected: 05/26/22 09:00

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-22

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 06:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26657	06/01/22 14:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26613	06/02/22 04:01	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26645	06/01/22 11:02	CH	XEN MID
Soluble	Analysis	300.0		1			26688	06/02/22 19:37	CH	XEN MID

Client Sample ID: SW02

Date Collected: 05/26/22 09:05

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-23

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 06:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26657	06/01/22 14:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26613	06/02/22 04:21	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26727	06/02/22 11:08	SC	XEN MID
Soluble	Analysis	300.0		1			26784	06/04/22 03:09	CH	XEN MID

Client Sample ID: SW03

Date Collected: 05/26/22 09:10

Date Received: 05/31/22 10:04

Lab Sample ID: 890-2361-24

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 07:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: SW03

Lab Sample ID: 890-2361-24

Date Collected: 05/26/22 09:10

Matrix: Solid

Date Received: 05/31/22 10:04

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			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26657	06/01/22 14:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26613	06/02/22 04:41	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26727	06/02/22 11:08	SC	XEN MID
Soluble	Analysis	300.0		1			26784	06/04/22 03:18	CH	XEN MID

Client Sample ID: SW04

Lab Sample ID: 890-2361-25

Date Collected: 05/26/22 09:15

Matrix: Solid

Date Received: 05/31/22 10:04

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 08:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26657	06/01/22 14:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26613	06/02/22 05:02	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26727	06/02/22 11:08	SC	XEN MID
Soluble	Analysis	300.0		1			26784	06/04/22 03:28	CH	XEN MID

Client Sample ID: SW05

Lab Sample ID: 890-2361-26

Date Collected: 05/27/22 10:40

Matrix: Solid

Date Received: 05/31/22 10:04

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 09:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26657	06/01/22 14:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26613	06/02/22 05:22	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26727	06/02/22 11:08	SC	XEN MID
Soluble	Analysis	300.0		1			26784	06/04/22 03:37	CH	XEN MID

Client Sample ID: SW06

Lab Sample ID: 890-2361-27

Date Collected: 05/27/22 10:45

Matrix: Solid

Date Received: 05/31/22 10:04

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 09:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26686	06/01/22 16:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26698	06/02/22 11:41	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Client Sample ID: SW06

Lab Sample ID: 890-2361-27

Date Collected: 05/27/22 10:45

Matrix: Solid

Date Received: 05/31/22 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	26727	06/02/22 11:08	SC	XEN MID
Soluble	Analysis	300.0		1			26784	06/04/22 03:46	CH	XEN MID

Client Sample ID: SW07

Lab Sample ID: 890-2361-28

Date Collected: 05/27/22 10:50

Matrix: Solid

Date Received: 05/31/22 10:04

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 09:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26686	06/01/22 16:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26698	06/02/22 12:45	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26727	06/02/22 11:08	SC	XEN MID
Soluble	Analysis	300.0		1			26784	06/04/22 03:55	CH	XEN MID

Client Sample ID: SW08

Lab Sample ID: 890-2361-29

Date Collected: 05/27/22 10:55

Matrix: Solid

Date Received: 05/31/22 10:04

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	26735	06/02/22 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26787	06/04/22 10:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26913	06/06/22 11:41	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26711	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26686	06/01/22 16:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26698	06/02/22 13:06	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	26727	06/02/22 11:08	SC	XEN MID
Soluble	Analysis	300.0		1			26784	06/04/22 04:04	CH	XEN MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

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

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

Method Summary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

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:

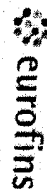
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: North Brush Draw Federal 35 #012H

Job ID: 890-2361-1
SDG: 03A1987015

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2361-1	FS01	Solid	05/27/22 09:30	05/31/22 10:04	4
890-2361-2	FS02	Solid	05/27/22 09:35	05/31/22 10:04	4
890-2361-3	FS03	Solid	05/27/22 09:40	05/31/22 10:04	4
890-2361-4	FS04	Solid	05/27/22 09:45	05/31/22 10:04	4
890-2361-5	FS05	Solid	05/27/22 09:50	05/31/22 10:04	1
890-2361-6	FS06	Solid	05/27/22 09:55	05/31/22 10:04	1
890-2361-7	FS07	Solid	05/27/22 10:00	05/31/22 10:04	1
890-2361-8	FS08	Solid	05/27/22 10:05	05/31/22 10:04	1
890-2361-9	FS11	Solid	05/27/22 10:20	05/31/22 10:04	1
890-2361-10	FS12	Solid	05/27/22 10:25	05/31/22 10:04	1
890-2361-11	FS13	Solid	05/27/22 10:30	05/31/22 10:04	1
890-2361-12	FS14	Solid	05/27/22 10:35	05/31/22 10:04	1
890-2361-13	FS15	Solid	05/26/22 09:20	05/31/22 10:04	4
890-2361-14	FS16	Solid	05/26/22 09:25	05/31/22 10:04	4
890-2361-15	FS17	Solid	05/26/22 09:30	05/31/22 10:04	4
890-2361-16	FS18	Solid	05/26/22 09:35	05/31/22 10:04	4
890-2361-17	FS19	Solid	05/26/22 09:40	05/31/22 10:04	4
890-2361-18	FS20	Solid	05/26/22 09:45	05/31/22 10:04	4
890-2361-19	FS21	Solid	05/26/22 09:50	05/31/22 10:04	4
890-2361-20	FS53	Solid	05/26/22 10:00	05/31/22 10:04	3
890-2361-21	FS54	Solid	05/26/22 09:55	05/31/22 10:04	4
890-2361-22	SW01	Solid	05/26/22 09:00	05/31/22 10:04	0 - 4
890-2361-23	SW02	Solid	05/26/22 09:05	05/31/22 10:04	0 - 4
890-2361-24	SW03	Solid	05/26/22 09:10	05/31/22 10:04	0 - 4
890-2361-25	SW04	Solid	05/26/22 09:15	05/31/22 10:04	0 - 4
890-2361-26	SW05	Solid	05/27/22 10:40	05/31/22 10:04	0 - 4
890-2361-27	SW06	Solid	05/27/22 10:45	05/31/22 10:04	0 - 4
890-2361-28	SW07	Solid	05/27/22 10:50	05/31/22 10:04	0 - 4
890-2361-29	SW08	Solid	05/27/22 10:55	05/31/22 10:04	0 - 4



ENVIRONMENTAL TESTING
XENCO

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 802-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 885-3443, Lubbock, TX (806) 764-1288
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 888-3188

Work Order No. _____

www.xenco.com Page 1 of 4

Project Manager:	Ben Beill	Bill to (different):	Jim Riley
Company Name:	Ensolum	Company Name:	WPX
Address:	3122 National Parks Hwy	Address:	5515 Suena-Vale Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	888-854-0852	Email:	BBeill@Ensolum.com, jim.riley@wpn.com
Project Name:	North Buggy Draw Federal 35 40124	Turn Around:	☒ Routine ☐ Rush
Project Number:	Q3A1987015	Due Date:	5 Day TAT
Project Location:	Eddy County, NM	TAT starts the day received by the lab. If received by 4:30pm	
Sample Name:	Gilbert McIntosh	Well Use:	(66) No
CC #:	1061133501	Temperature ID:	1-11-02

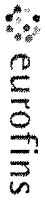
Program: UST/PTST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRCP ☐ Level IV ☐
Deliverables: EDO ☐ ADAPT ☐ Other:

Sample Receipt	Temp Blank	Temp No	Well Use	Parameters
Sample Received Inside	(66) No	(66) No		
Cooper/Cutty/Seal	Yes No (NA)	Temperature ID	1-11-02	
Sample Control Seal	Yes No (NA)	Temperature ID	1-11-02	
Total Comments:		Temperature ID	1-11-02	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav. % of Cont.	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	ANALYSIS REQUEST
FS01	S	5/27/22	8:30	4' 4"	Comp 1	X	X	X	
FS02	S	5/27/22	8:35	4' 4"	Comp 1	X	X	X	
FS03	S	5/27/22	8:40	4' 4"	Comp 1	X	X	X	
FS04	S	5/27/22	8:45	4' 4"	Comp 1	X	X	X	
FS05	S	5/27/22	8:50	1'	Comp 1	X	X	X	
FS06	S	5/27/22	8:55	1'	Comp 1	X	X	X	
FS07	S	5/27/22	10:00	1'	Comp 1	X	X	X	
FS08	S	5/27/22	10:05	1'	Comp 1	X	X	X	
FS09	S	5/27/22	10:10	1'	Comp 1	X	X	X	
FS10	S	5/27/22	10:15	1'	Comp 1	X	X	X	

Total 200.71 6010 200.5/8020: 8RCBA, 3PPM, Texas 11 A Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Uq Mn Mo Ni K Se Ag SiO₂ Na St Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed:	TCUP/8010 8RCBA 8B As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
Signature of Analyst:	Signature of Custodian:
Date:	Date:



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) 794-1286
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Work Order No: _____

www.xenco.com Page 2 of 4

Project Manager:	Ben Beill	Bill to: (if different)	Jim Raley
Company Name:	Ensolum	Company Name:	WPX
Address:	3122 National Parks Hwy	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	BBeill@Ensolum.com, jim.raley@wpn.com

Project Name:	North Brushy Draw Federal 35 #012H	Turn Around	Prep. Code
Project Number:	03A1987015	☒ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	5 Day TAT
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm	
CC #:	1061183501	Temp Blank:	Yes ☒ No ☐
SAMPLE RECEIPT	Temp Blank:	Yes ☒ No ☐	Weight:
Samples Received Intact:	Yes ☒ No ☐	Thermometer ID:	-0.2
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:	3.0
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:	3.0
Total Containers:		Corrected Temperature:	3.0

ANALYSIS REQUEST	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
------------------	------------------------	------------	-------------

Work Order Comments	Program: US/PT ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: _____

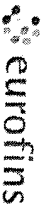
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont	Preservative Codes	Sample Comments
FS11	S	5/27/22	10:20	1'	Comp	1	None: NO DI Water: H ₂ O	
FS12	S	5/27/22	10:25	1'	Comp	1	Cool: Cool MeOH: Me	
FS13	S	5/27/22	10:30	1'	Comp	1	HCL: HC HNO ₃ : HN	
FS14	S	5/27/22	10:35	1'	Comp	1	H ₂ SO ₄ : H ₂ NaOH: Na	
FS15	S	5/26/22	9:20	1'	Comp	1	H ₃ PO ₄ : HP	
FS16	S	5/26/22	9:25	1'	Comp	1	NaHSO ₄ : NABIS	
FS17	S	5/26/22	9:30	1'	Comp	1	Na ₂ S ₂ O ₃ : NaSO ₃	
FS18	S	5/26/22	9:35	1'	Comp	1	Zn Acetate+NaOH: Zn	
FS19	S	5/26/22	9:40	1'	Comp	1	NaOH+Ascorbic Acid: SARC	
FS20	S	5/26/22	9:45	1'	Comp	1		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010, 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Note: 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 \$2 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
<i>[Signature]</i>	<i>[Signature]</i>	5/31/22 10:04			



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 508-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1286
Hobbs, NM (575) 382-7550, Carlsbad, NM (575) 988-3189

Work Order No: _____

www.xenco.com Page 3 of 4

Project Manager:	Ben Belli	Bill to: (if different)	Jim Raley
Company Name:	Ensolum	Company Name:	WPX
Address:	3122 National Parks HWY	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	BBelli@Ensolum.com jim.raley@dyn.com

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

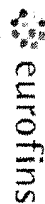
Project Name:	North Brushy Draw Federal 35 R012H	Turn Around	☒ Routine ☐ Rush	Prep Codes
Project Number:	03A1987015	Due Date:	5 Day TAT	
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm		
Sampler's Name:	Gilbert Moreno			
CC #:	1081183501			
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No		
Samples Received Intact:	☒ Yes ☒ No	Thermometer ID:	LM-003	
Cooler Custody Seals:	☒ Yes ☒ No	Correction Factor:	-0.02	
Sample Custody Seals:	☒ Yes ☒ No	Temperature Reading:	3.3	
Total Containers:		Corrected Temperature:	3.0	

Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont	ANALYSIS REQUEST										Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notes: 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 \$8 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
<i>Carolina</i>	<i>Aracela</i>	5/21/22 10:04			



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 505-3333
El Paso, TX (915) 585-2443, Lubbock, TX (806) 794-1286
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com Page 9 of 7

Project Manager:		Ben Beilitt	Bill to: (if different)		Jim Raley
Company Name:		Ensolum	Company Name:		WPX
Address:		3122 National Parks HWY	Address:		5315 Buena Vista Dr.
City, State ZIP:		Carlsbad, NM 88220	City, State ZIP:		Carlsbad, NM 88220
Phone:		989-854-0852	Email:		BBellitt@Ensolum.com, jim.raley@dyn.com

Work Order Comments					
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: _____ Reporting: Level I ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____					

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2361-1

SDG Number: 03A1987015

Login Number: 2361

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: 890-2361-1

SDG Number: 03A1987015

Login Number: 2361**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 06/01/22 11:10 AM**

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2368-1

Laboratory Sample Delivery Group: 03a1987015

Client Project/Site: North Brushy Draw Federal 35 #012H

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Joseph Hernandez

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

6/8/2022 1:48:54 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Laboratory Job ID: 890-2368-1
SDG: 03a1987015

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	41
QC Sample Results	44
QC Association Summary	56
Lab Chronicle	66
Certification Summary	80
Method Summary	81
Sample Summary	82
Chain of Custody	83
Receipt Checklists	93

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

Definitions/Glossary

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Job ID: 890-2368-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-2368-1****Receipt**

The samples were received on 6/2/2022 11:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-26836 and analytical batch 880-26966 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

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW12 (890-2368-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS23 (890-2368-15), FS24 (890-2368-16) and FS25 (890-2368-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS22 (890-2368-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-26775/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-26812 and analytical batch 880-26861 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW09

Lab Sample ID: 890-2368-1

Date Collected: 06/01/22 08:30

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		06/03/22 14:58	06/08/22 00:19	1
Toluene	0.00207	F1	0.00199		mg/Kg		06/03/22 14:58	06/08/22 00:19	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		06/03/22 14:58	06/08/22 00:19	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		06/03/22 14:58	06/08/22 00:19	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		06/03/22 14:58	06/08/22 00:19	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		06/03/22 14:58	06/08/22 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/03/22 14:58	06/08/22 00:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/03/22 14:58	06/08/22 00:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 12:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 12:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	06/03/22 08:40	06/03/22 12:06	1
o-Terphenyl	109		70 - 130	06/03/22 08:40	06/03/22 12:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		4.96		mg/Kg			06/05/22 08:20	1

Client Sample ID: SW10

Lab Sample ID: 890-2368-2

Date Collected: 06/01/22 08:35

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 00:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 00:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 00:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/03/22 14:58	06/08/22 00:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 00:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/03/22 14:58	06/08/22 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	06/03/22 14:58	06/08/22 00:39	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW10

Lab Sample ID: 890-2368-2

Date Collected: 06/01/22 08:35

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	06/03/22 14:58	06/08/22 00:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 13:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 13:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 13:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				06/03/22 08:40	06/03/22 13:59	1
o-Terphenyl	123		70 - 130				06/03/22 08:40	06/03/22 13:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.1		5.00		mg/Kg			06/05/22 08:47	1

Client Sample ID: SW11

Lab Sample ID: 890-2368-3

Date Collected: 06/01/22 08:40

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/03/22 14:58	06/08/22 01:00	1
Toluene	0.00206		0.00198		mg/Kg		06/03/22 14:58	06/08/22 01:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/03/22 14:58	06/08/22 01:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/03/22 14:58	06/08/22 01:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/03/22 14:58	06/08/22 01:00	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/03/22 14:58	06/08/22 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	06/03/22 14:58	06/08/22 01:00	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/03/22 14:58	06/08/22 01:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW11

Lab Sample ID: 890-2368-3

Date Collected: 06/01/22 08:40

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 14:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 14:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				06/03/22 08:40	06/03/22 14:21	1
o-Terphenyl	118		70 - 130				06/03/22 08:40	06/03/22 14:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.0		4.99		mg/Kg			06/05/22 08:56	1

Client Sample ID: SW12

Lab Sample ID: 890-2368-4

Date Collected: 06/01/22 08:45

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 01:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 01:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 01:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/03/22 14:58	06/08/22 01:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 01:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/03/22 14:58	06/08/22 01:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				06/03/22 14:58	06/08/22 01:20	1
1,4-Difluorobenzene (Surr)	90		70 - 130				06/03/22 14:58	06/08/22 01:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 14:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 14:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				06/03/22 08:40	06/03/22 14:42	1
o-Terphenyl	144	S1+	70 - 130				06/03/22 08:40	06/03/22 14:42	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW12

Lab Sample ID: 890-2368-4

Date Collected: 06/01/22 08:45

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.2		5.05		mg/Kg			06/05/22 09:06	1

Client Sample ID: SW13

Lab Sample ID: 890-2368-5

Date Collected: 06/01/22 08:50

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 01:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 01:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 01:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/03/22 14:58	06/08/22 01:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 01:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/03/22 14:58	06/08/22 01:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				06/03/22 14:58	06/08/22 01:41	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/03/22 14:58	06/08/22 01:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 15:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 15:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				06/03/22 08:40	06/03/22 15:04	1
o-Terphenyl	117		70 - 130				06/03/22 08:40	06/03/22 15:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.3		4.97		mg/Kg			06/05/22 09:15	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW14

Lab Sample ID: 890-2368-6

Date Collected: 06/01/22 08:55

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 02:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 02:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 02:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/03/22 14:58	06/08/22 02:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 02:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/03/22 14:58	06/08/22 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/03/22 14:58	06/08/22 02:02	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/03/22 14:58	06/08/22 02:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 15:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 15:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	06/03/22 08:40	06/03/22 15:25	1
o-Terphenyl	129		70 - 130	06/03/22 08:40	06/03/22 15:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.2		4.95		mg/Kg			06/05/22 09:42	1

Client Sample ID: SW15

Lab Sample ID: 890-2368-7

Date Collected: 06/01/22 09:00

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/03/22 14:58	06/08/22 02:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/03/22 14:58	06/08/22 02:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/03/22 14:58	06/08/22 02:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/03/22 14:58	06/08/22 02:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/03/22 14:58	06/08/22 02:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/03/22 14:58	06/08/22 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/03/22 14:58	06/08/22 02:22	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW15

Lab Sample ID: 890-2368-7

Date Collected: 06/01/22 09:00

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	06/03/22 14:58	06/08/22 02:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 15:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 15:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				06/03/22 08:40	06/03/22 15:47	1
o-Terphenyl	120		70 - 130				06/03/22 08:40	06/03/22 15:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.1		4.95		mg/Kg			06/05/22 09:52	1

Client Sample ID: SW16

Lab Sample ID: 890-2368-8

Date Collected: 06/01/22 09:05

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/03/22 14:58	06/08/22 02:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/03/22 14:58	06/08/22 02:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/03/22 14:58	06/08/22 02:43	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/03/22 14:58	06/08/22 02:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/03/22 14:58	06/08/22 02:43	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/03/22 14:58	06/08/22 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	06/03/22 14:58	06/08/22 02:43	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/03/22 14:58	06/08/22 02:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW16

Lab Sample ID: 890-2368-8

Date Collected: 06/01/22 09:05

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 16:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 16:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				06/03/22 08:40	06/03/22 16:09	1
o-Terphenyl	126		70 - 130				06/03/22 08:40	06/03/22 16:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		4.97		mg/Kg			06/05/22 10:01	1

Client Sample ID: SW17

Lab Sample ID: 890-2368-9

Date Collected: 06/01/22 09:10

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 03:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 03:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 03:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/03/22 14:58	06/08/22 03:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 03:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/03/22 14:58	06/08/22 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				06/03/22 14:58	06/08/22 03:04	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/03/22 14:58	06/08/22 03:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 16:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 16:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				06/03/22 08:40	06/03/22 16:30	1
o-Terphenyl	127		70 - 130				06/03/22 08:40	06/03/22 16:30	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW17

Lab Sample ID: 890-2368-9

Date Collected: 06/01/22 09:10

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.3		4.95		mg/Kg			06/05/22 10:10	1

Client Sample ID: SW18

Lab Sample ID: 890-2368-10

Date Collected: 06/01/22 09:15

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 03:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 03:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 03:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/03/22 14:58	06/08/22 03:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 03:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/03/22 14:58	06/08/22 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/03/22 14:58	06/08/22 03:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130				06/03/22 14:58	06/08/22 03:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 16:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 16:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				06/03/22 08:40	06/03/22 16:52	1
o-Terphenyl	125		70 - 130				06/03/22 08:40	06/03/22 16:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.8		4.98		mg/Kg			06/05/22 10:19	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW19

Lab Sample ID: 890-2368-11

Date Collected: 06/01/22 09:20

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/03/22 14:58	06/08/22 04:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/03/22 14:58	06/08/22 04:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/03/22 14:58	06/08/22 04:47	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/03/22 14:58	06/08/22 04:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/03/22 14:58	06/08/22 04:47	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/03/22 14:58	06/08/22 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/03/22 14:58	06/08/22 04:47	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/03/22 14:58	06/08/22 04:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 17:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 17:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	06/03/22 08:40	06/03/22 17:38	1
o-Terphenyl	118		70 - 130	06/03/22 08:40	06/03/22 17:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.0		4.99		mg/Kg			06/05/22 10:28	1

Client Sample ID: FS09

Lab Sample ID: 890-2368-12

Date Collected: 06/01/22 09:25

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/03/22 14:58	06/08/22 05:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/03/22 14:58	06/08/22 05:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/03/22 14:58	06/08/22 05:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/03/22 14:58	06/08/22 05:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/03/22 14:58	06/08/22 05:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/03/22 14:58	06/08/22 05:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/03/22 14:58	06/08/22 05:08	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS09

Lab Sample ID: 890-2368-12

Date Collected: 06/01/22 09:25

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	06/03/22 14:58	06/08/22 05:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 18:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 18:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				06/03/22 08:40	06/03/22 18:00	1
o-Terphenyl	124		70 - 130				06/03/22 08:40	06/03/22 18:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.5		5.04		mg/Kg			06/05/22 10:56	1

Client Sample ID: FS10

Lab Sample ID: 890-2368-13

Date Collected: 06/01/22 09:30

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/03/22 14:58	06/08/22 05:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/03/22 14:58	06/08/22 05:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/03/22 14:58	06/08/22 05:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/03/22 14:58	06/08/22 05:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/03/22 14:58	06/08/22 05:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/03/22 14:58	06/08/22 05:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	06/03/22 14:58	06/08/22 05:29	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/03/22 14:58	06/08/22 05:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS10

Lab Sample ID: 890-2368-13

Date Collected: 06/01/22 09:30

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 18:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 18:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				06/03/22 08:40	06/03/22 18:21	1
o-Terphenyl	114		70 - 130				06/03/22 08:40	06/03/22 18:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.8		4.95		mg/Kg			06/05/22 11:05	1

Client Sample ID: FS22

Lab Sample ID: 890-2368-14

Date Collected: 06/01/22 09:35

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 05:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 05:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 05:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/03/22 14:58	06/08/22 05:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 05:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/03/22 14:58	06/08/22 05:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				06/03/22 14:58	06/08/22 05:49	1
1,4-Difluorobenzene (Surr)	93		70 - 130				06/03/22 14:58	06/08/22 05:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 18:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 18:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				06/03/22 08:40	06/03/22 18:43	1
o-Terphenyl	135	S1+	70 - 130				06/03/22 08:40	06/03/22 18:43	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS22

Lab Sample ID: 890-2368-14

Date Collected: 06/01/22 09:35

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.2		4.97		mg/Kg			06/05/22 11:33	1

Client Sample ID: FS23

Lab Sample ID: 890-2368-15

Date Collected: 06/01/22 09:40

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 06:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 06:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 06:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/03/22 14:58	06/08/22 06:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 06:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/03/22 14:58	06/08/22 06:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				06/03/22 14:58	06/08/22 06:10	1
1,4-Difluorobenzene (Surr)	101		70 - 130				06/03/22 14:58	06/08/22 06:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 19:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 19:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				06/03/22 08:40	06/03/22 19:04	1
o-Terphenyl	133	S1+	70 - 130				06/03/22 08:40	06/03/22 19:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.0		5.00		mg/Kg			06/05/22 11:42	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS24

Lab Sample ID: 890-2368-16

Date Collected: 06/01/22 09:45

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 06:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 06:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 06:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/03/22 14:58	06/08/22 06:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/08/22 06:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/03/22 14:58	06/08/22 06:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	06/03/22 14:58	06/08/22 06:30	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/03/22 14:58	06/08/22 06:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/03/22 08:40	06/03/22 19:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/03/22 08:40	06/03/22 19:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/03/22 08:40	06/03/22 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130	06/03/22 08:40	06/03/22 19:25	1
o-Terphenyl	142	S1+	70 - 130	06/03/22 08:40	06/03/22 19:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.8		5.00		mg/Kg			06/05/22 11:51	1

Client Sample ID: FS25

Lab Sample ID: 890-2368-17

Date Collected: 06/01/22 09:50

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/03/22 14:58	06/08/22 06:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/03/22 14:58	06/08/22 06:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/03/22 14:58	06/08/22 06:51	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/03/22 14:58	06/08/22 06:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/03/22 14:58	06/08/22 06:51	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/03/22 14:58	06/08/22 06:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	06/03/22 14:58	06/08/22 06:51	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS25

Lab Sample ID: 890-2368-17

Date Collected: 06/01/22 09:50

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	06/03/22 14:58	06/08/22 06:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 19:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				06/03/22 08:40	06/03/22 19:47	1
o-Terphenyl	135	S1+	70 - 130				06/03/22 08:40	06/03/22 19:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.4		4.96		mg/Kg			06/05/22 12:01	1

Client Sample ID: FS26

Lab Sample ID: 890-2368-18

Date Collected: 06/01/22 09:55

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 07:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 07:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 07:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/03/22 14:58	06/08/22 07:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/03/22 14:58	06/08/22 07:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/03/22 14:58	06/08/22 07:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	06/03/22 14:58	06/08/22 07:12	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/03/22 14:58	06/08/22 07:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS26

Lab Sample ID: 890-2368-18

Date Collected: 06/01/22 09:55

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 20:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 20:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				06/03/22 08:40	06/03/22 20:08	1
o-Terphenyl	118		70 - 130				06/03/22 08:40	06/03/22 20:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.4		4.95		mg/Kg			06/05/22 12:10	1

Client Sample ID: FS27

Lab Sample ID: 890-2368-19

Date Collected: 06/01/22 10:00

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/03/22 14:58	06/08/22 07:32	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/03/22 14:58	06/08/22 07:32	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/03/22 14:58	06/08/22 07:32	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/03/22 14:58	06/08/22 07:32	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/03/22 14:58	06/08/22 07:32	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/03/22 14:58	06/08/22 07:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				06/03/22 14:58	06/08/22 07:32	1
1,4-Difluorobenzene (Surr)	98		70 - 130				06/03/22 14:58	06/08/22 07:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 20:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 20:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:40	06/03/22 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				06/03/22 08:40	06/03/22 20:30	1
o-Terphenyl	124		70 - 130				06/03/22 08:40	06/03/22 20:30	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS27

Lab Sample ID: 890-2368-19

Date Collected: 06/01/22 10:00

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.5		4.96		mg/Kg			06/05/22 12:19	1

Client Sample ID: FS28

Lab Sample ID: 890-2368-20

Date Collected: 06/01/22 10:05

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/03/22 14:58	06/08/22 07:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/03/22 14:58	06/08/22 07:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/03/22 14:58	06/08/22 07:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/03/22 14:58	06/08/22 07:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/03/22 14:58	06/08/22 07:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/03/22 14:58	06/08/22 07:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				06/03/22 14:58	06/08/22 07:53	1
1,4-Difluorobenzene (Surr)	93		70 - 130				06/03/22 14:58	06/08/22 07:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/03/22 08:40	06/03/22 20:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/03/22 08:40	06/03/22 20:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/03/22 08:40	06/03/22 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				06/03/22 08:40	06/03/22 20:51	1
o-Terphenyl	126		70 - 130				06/03/22 08:40	06/03/22 20:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.3		4.99		mg/Kg			06/05/22 12:28	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS29

Lab Sample ID: 890-2368-21

Date Collected: 06/01/22 10:10

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 09:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 09:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 09:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/03/22 15:03	06/05/22 09:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 09:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/03/22 15:03	06/05/22 09:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/03/22 15:03	06/05/22 09:47	1
1,4-Difluorobenzene (Surr)	87		70 - 130	06/03/22 15:03	06/05/22 09:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 12:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 12:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	06/03/22 08:41	06/03/22 12:06	1
o-Terphenyl	102		70 - 130	06/03/22 08:41	06/03/22 12:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.9		4.98		mg/Kg			06/05/22 13:42	1

Client Sample ID: FS30

Lab Sample ID: 890-2368-22

Date Collected: 06/01/22 10:15

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 10:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 10:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 10:07	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/03/22 15:03	06/05/22 10:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 10:07	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/03/22 15:03	06/05/22 10:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/03/22 15:03	06/05/22 10:07	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS30

Lab Sample ID: 890-2368-22

Date Collected: 06/01/22 10:15

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	06/03/22 15:03	06/05/22 10:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 13:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 13:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 13:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				06/03/22 08:41	06/03/22 13:59	1
o-Terphenyl	93		70 - 130				06/03/22 08:41	06/03/22 13:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.5		4.95		mg/Kg			06/05/22 14:10	1

Client Sample ID: FS31

Lab Sample ID: 890-2368-23

Date Collected: 06/01/22 10:20

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 10:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 10:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 10:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/03/22 15:03	06/05/22 10:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 10:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/03/22 15:03	06/05/22 10:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/03/22 15:03	06/05/22 10:28	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/03/22 15:03	06/05/22 10:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS31

Lab Sample ID: 890-2368-23

Date Collected: 06/01/22 10:20

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 14:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 14:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				06/03/22 08:41	06/03/22 14:21	1
o-Terphenyl	97		70 - 130				06/03/22 08:41	06/03/22 14:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.2		5.01		mg/Kg			06/05/22 14:19	1

Client Sample ID: FS32

Lab Sample ID: 890-2368-24

Date Collected: 06/01/22 10:25

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 10:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 10:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 10:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/03/22 15:03	06/05/22 10:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 10:48	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/03/22 15:03	06/05/22 10:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/03/22 15:03	06/05/22 10:48	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/03/22 15:03	06/05/22 10:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 14:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 14:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				06/03/22 08:41	06/03/22 14:42	1
o-Terphenyl	99		70 - 130				06/03/22 08:41	06/03/22 14:42	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS32

Lab Sample ID: 890-2368-24

Date Collected: 06/01/22 10:25

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.0		4.99		mg/Kg			06/05/22 14:28	1

Client Sample ID: FS33

Lab Sample ID: 890-2368-25

Date Collected: 06/01/22 10:30

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 11:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 11:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 11:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/03/22 15:03	06/05/22 11:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 11:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/03/22 15:03	06/05/22 11:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/03/22 15:03	06/05/22 11:09	1
1,4-Difluorobenzene (Surr)	93		70 - 130				06/03/22 15:03	06/05/22 11:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 15:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 15:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				06/03/22 08:41	06/03/22 15:04	1
o-Terphenyl	81		70 - 130				06/03/22 08:41	06/03/22 15:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.3		4.98		mg/Kg			06/05/22 14:37	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS34

Lab Sample ID: 890-2368-26

Date Collected: 06/01/22 10:35

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:03	06/05/22 11:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:03	06/05/22 11:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:03	06/05/22 11:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/03/22 15:03	06/05/22 11:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:03	06/05/22 11:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/03/22 15:03	06/05/22 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/03/22 15:03	06/05/22 11:29	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/03/22 15:03	06/05/22 11:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 15:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 15:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	06/03/22 08:41	06/03/22 15:25	1
o-Terphenyl	95		70 - 130	06/03/22 08:41	06/03/22 15:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.5		5.00		mg/Kg			06/05/22 15:05	1

Client Sample ID: FS35

Lab Sample ID: 890-2368-27

Date Collected: 06/01/22 10:40

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 11:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 11:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 11:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/03/22 15:03	06/05/22 11:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 11:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/03/22 15:03	06/05/22 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/03/22 15:03	06/05/22 11:50	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS35

Lab Sample ID: 890-2368-27

Date Collected: 06/01/22 10:40

Matrix: Solid

Date Received: 06/02/22 11:30

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	06/03/22 15:03	06/05/22 11:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 15:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 15:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				06/03/22 08:41	06/03/22 15:47	1
o-Terphenyl	80		70 - 130				06/03/22 08:41	06/03/22 15:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		4.97		mg/Kg			06/05/22 15:14	1

Client Sample ID: FS36

Lab Sample ID: 890-2368-28

Date Collected: 06/01/22 10:45

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 12:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 12:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 12:10	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/03/22 15:03	06/05/22 12:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 12:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/03/22 15:03	06/05/22 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/03/22 15:03	06/05/22 12:10	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/03/22 15:03	06/05/22 12:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS36

Lab Sample ID: 890-2368-28

Date Collected: 06/01/22 10:45

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 16:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 16:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				06/03/22 08:41	06/03/22 16:09	1
o-Terphenyl	90		70 - 130				06/03/22 08:41	06/03/22 16:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.3		4.99		mg/Kg			06/05/22 15:24	1

Client Sample ID: FS37

Lab Sample ID: 890-2368-29

Date Collected: 06/01/22 10:50

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 12:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 12:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 12:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/03/22 15:03	06/05/22 12:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 12:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/03/22 15:03	06/05/22 12:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				06/03/22 15:03	06/05/22 12:31	1
1,4-Difluorobenzene (Surr)	92		70 - 130				06/03/22 15:03	06/05/22 12:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 16:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 16:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				06/03/22 08:41	06/03/22 16:30	1
o-Terphenyl	94		70 - 130				06/03/22 08:41	06/03/22 16:30	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS37

Lab Sample ID: 890-2368-29

Date Collected: 06/01/22 10:50

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.8		4.96		mg/Kg			06/05/22 15:33	1

Client Sample ID: FS38

Lab Sample ID: 890-2368-30

Date Collected: 06/01/22 10:55

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 12:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 12:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 12:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/03/22 15:03	06/05/22 12:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 12:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/03/22 15:03	06/05/22 12:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				06/03/22 15:03	06/05/22 12:51	1
1,4-Difluorobenzene (Surr)	92		70 - 130				06/03/22 15:03	06/05/22 12:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/03/22 08:41	06/03/22 16:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/03/22 08:41	06/03/22 16:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/03/22 08:41	06/03/22 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				06/03/22 08:41	06/03/22 16:52	1
o-Terphenyl	96		70 - 130				06/03/22 08:41	06/03/22 16:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		5.00		mg/Kg			06/05/22 15:42	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS39

Lab Sample ID: 890-2368-31

Date Collected: 06/01/22 11:00

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 14:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 14:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 14:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/03/22 15:03	06/05/22 14:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 14:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/03/22 15:03	06/05/22 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/03/22 15:03	06/05/22 14:14	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/03/22 15:03	06/05/22 14:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 17:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 17:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	06/03/22 08:41	06/03/22 17:38	1
o-Terphenyl	113		70 - 130	06/03/22 08:41	06/03/22 17:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	322	F1	4.95		mg/Kg			06/05/22 15:51	1

Client Sample ID: FS40

Lab Sample ID: 890-2368-32

Date Collected: 06/01/22 11:05

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 14:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 14:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 14:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/03/22 15:03	06/05/22 14:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 14:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/03/22 15:03	06/05/22 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/03/22 15:03	06/05/22 14:34	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS40

Lab Sample ID: 890-2368-32

Date Collected: 06/01/22 11:05

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	06/03/22 15:03	06/05/22 14:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 18:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 18:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				06/03/22 08:41	06/03/22 18:00	1
o-Terphenyl	117		70 - 130				06/03/22 08:41	06/03/22 18:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		5.00		mg/Kg			06/05/22 16:19	1

Client Sample ID: FS41

Lab Sample ID: 890-2368-33

Date Collected: 06/01/22 11:10

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:03	06/05/22 14:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:03	06/05/22 14:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:03	06/05/22 14:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/03/22 15:03	06/05/22 14:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:03	06/05/22 14:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/03/22 15:03	06/05/22 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	06/03/22 15:03	06/05/22 14:55	1
1,4-Difluorobenzene (Surr)	85		70 - 130	06/03/22 15:03	06/05/22 14:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS41

Lab Sample ID: 890-2368-33

Date Collected: 06/01/22 11:10

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 18:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 18:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				06/03/22 08:41	06/03/22 18:21	1
o-Terphenyl	94		70 - 130				06/03/22 08:41	06/03/22 18:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		4.98		mg/Kg			06/05/22 16:28	1

Client Sample ID: FS42

Lab Sample ID: 890-2368-34

Date Collected: 06/01/22 11:15

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/03/22 15:03	06/05/22 15:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/03/22 15:03	06/05/22 15:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/03/22 15:03	06/05/22 15:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/03/22 15:03	06/05/22 15:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/03/22 15:03	06/05/22 15:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/03/22 15:03	06/05/22 15:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/03/22 15:03	06/05/22 15:15	1
1,4-Difluorobenzene (Surr)	89		70 - 130				06/03/22 15:03	06/05/22 15:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 18:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 18:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				06/03/22 08:41	06/03/22 18:43	1
o-Terphenyl	93		70 - 130				06/03/22 08:41	06/03/22 18:43	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS42

Lab Sample ID: 890-2368-34

Date Collected: 06/01/22 11:15

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	246		4.97		mg/Kg			06/05/22 16:56	1

Client Sample ID: FS43

Lab Sample ID: 890-2368-35

Date Collected: 06/01/22 11:20

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 15:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 15:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 15:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/03/22 15:03	06/05/22 15:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 15:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/03/22 15:03	06/05/22 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				06/03/22 15:03	06/05/22 15:36	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/03/22 15:03	06/05/22 15:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 19:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 19:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				06/03/22 08:41	06/03/22 19:04	1
o-Terphenyl	111		70 - 130				06/03/22 08:41	06/03/22 19:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	191		4.96		mg/Kg			06/05/22 17:05	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS44

Lab Sample ID: 890-2368-36

Date Collected: 06/01/22 11:25

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 15:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 15:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 15:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/03/22 15:03	06/05/22 15:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/03/22 15:03	06/05/22 15:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/03/22 15:03	06/05/22 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/03/22 15:03	06/05/22 15:56	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/03/22 15:03	06/05/22 15:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 19:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 19:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	06/03/22 08:41	06/03/22 19:25	1
o-Terphenyl	101		70 - 130	06/03/22 08:41	06/03/22 19:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	156		4.99		mg/Kg			06/05/22 17:14	1

Client Sample ID: FS45

Lab Sample ID: 890-2368-37

Date Collected: 06/01/22 11:30

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 16:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 16:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 16:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/03/22 15:03	06/05/22 16:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 16:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/03/22 15:03	06/05/22 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/03/22 15:03	06/05/22 16:17	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS45

Lab Sample ID: 890-2368-37

Date Collected: 06/01/22 11:30

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	06/03/22 15:03	06/05/22 16:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 19:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 19:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:41	06/03/22 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				06/03/22 08:41	06/03/22 19:47	1
o-Terphenyl	105		70 - 130				06/03/22 08:41	06/03/22 19:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		5.04		mg/Kg			06/05/22 17:23	1

Client Sample ID: FS46

Lab Sample ID: 890-2368-38

Date Collected: 06/01/22 11:35

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 16:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 16:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 16:37	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/03/22 15:03	06/05/22 16:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 16:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/03/22 15:03	06/05/22 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/03/22 15:03	06/05/22 16:37	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/03/22 15:03	06/05/22 16:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/06/22 09:13	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS46

Lab Sample ID: 890-2368-38

Date Collected: 06/01/22 11:35

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/03/22 08:41	06/03/22 20:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/03/22 08:41	06/03/22 20:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/03/22 08:41	06/03/22 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				06/03/22 08:41	06/03/22 20:08	1
o-Terphenyl	106		70 - 130				06/03/22 08:41	06/03/22 20:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		5.01		mg/Kg			06/05/22 17:32	1

Client Sample ID: FS47

Lab Sample ID: 890-2368-39

Date Collected: 06/01/22 11:40

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 16:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 16:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 16:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/03/22 15:03	06/05/22 16:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 16:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/03/22 15:03	06/05/22 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/03/22 15:03	06/05/22 16:58	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/03/22 15:03	06/05/22 16:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 20:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 20:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				06/03/22 08:41	06/03/22 20:30	1
o-Terphenyl	104		70 - 130				06/03/22 08:41	06/03/22 20:30	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS47

Lab Sample ID: 890-2368-39

Date Collected: 06/01/22 11:40

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		4.99		mg/Kg			06/05/22 17:42	1

Client Sample ID: FS48

Lab Sample ID: 890-2368-40

Date Collected: 06/01/22 11:45

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 17:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 17:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 17:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/03/22 15:03	06/05/22 17:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/03/22 15:03	06/05/22 17:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/03/22 15:03	06/05/22 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				06/03/22 15:03	06/05/22 17:18	1
1,4-Difluorobenzene (Surr)	97		70 - 130				06/03/22 15:03	06/05/22 17:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 20:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 20:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				06/03/22 08:41	06/03/22 20:51	1
o-Terphenyl	107		70 - 130				06/03/22 08:41	06/03/22 20:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.9		4.95		mg/Kg			06/05/22 17:51	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS49

Lab Sample ID: 890-2368-41

Date Collected: 06/01/22 11:50

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:09	06/05/22 20:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:09	06/05/22 20:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:09	06/05/22 20:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/03/22 15:09	06/05/22 20:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:09	06/05/22 20:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/03/22 15:09	06/05/22 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/03/22 15:09	06/05/22 20:22	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/03/22 15:09	06/05/22 20:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:31	06/03/22 15:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:31	06/03/22 15:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:31	06/03/22 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	06/03/22 08:31	06/03/22 15:05	1
o-Terphenyl	122		70 - 130	06/03/22 08:31	06/03/22 15:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.2		4.96		mg/Kg			06/08/22 02:49	1

Client Sample ID: FS50

Lab Sample ID: 890-2368-42

Date Collected: 06/01/22 11:55

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/03/22 15:09	06/05/22 20:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/03/22 15:09	06/05/22 20:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/03/22 15:09	06/05/22 20:43	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/03/22 15:09	06/05/22 20:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/03/22 15:09	06/05/22 20:43	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/03/22 15:09	06/05/22 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/03/22 15:09	06/05/22 20:43	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS50

Lab Sample ID: 890-2368-42

Date Collected: 06/01/22 11:55

Matrix: Solid

Date Received: 06/02/22 11:30

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	06/03/22 15:09	06/05/22 20:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:31	06/03/22 15:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:31	06/03/22 15:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:31	06/03/22 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				06/03/22 08:31	06/03/22 15:27	1
o-Terphenyl	119		70 - 130				06/03/22 08:31	06/03/22 15:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.9		4.95		mg/Kg			06/08/22 02:58	1

Client Sample ID: FS51

Lab Sample ID: 890-2368-43

Date Collected: 06/01/22 12:00

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/03/22 15:09	06/05/22 21:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/03/22 15:09	06/05/22 21:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/03/22 15:09	06/05/22 21:03	1
m-Xylene & p-Xylene	0.00480		0.00397		mg/Kg		06/03/22 15:09	06/05/22 21:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/03/22 15:09	06/05/22 21:03	1
Xylenes, Total	0.00480		0.00397		mg/Kg		06/03/22 15:09	06/05/22 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	06/03/22 15:09	06/05/22 21:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/03/22 15:09	06/05/22 21:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00480		0.00397		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/22 09:13	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS51

Lab Sample ID: 890-2368-43

Date Collected: 06/01/22 12:00

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/22 08:31	06/03/22 15:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/22 08:31	06/03/22 15:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/22 08:31	06/03/22 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				06/03/22 08:31	06/03/22 15:50	1
o-Terphenyl	114		70 - 130				06/03/22 08:31	06/03/22 15:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.6		4.99		mg/Kg			06/08/22 03:07	1

Client Sample ID: FS52

Lab Sample ID: 890-2368-44

Date Collected: 06/01/22 12:05

Matrix: Solid

Date Received: 06/02/22 11:30

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:09	06/05/22 21:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:09	06/05/22 21:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:09	06/05/22 21:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/03/22 15:09	06/05/22 21:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/03/22 15:09	06/05/22 21:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/03/22 15:09	06/05/22 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				06/03/22 15:09	06/05/22 21:24	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/03/22 15:09	06/05/22 21:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/22 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:31	06/03/22 16:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:31	06/03/22 16:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:31	06/03/22 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				06/03/22 08:31	06/03/22 16:11	1
o-Terphenyl	115		70 - 130				06/03/22 08:31	06/03/22 16:11	1

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Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS52
Date Collected: 06/01/22 12:05
Date Received: 06/02/22 11:30
Sample Depth: 2

Lab Sample ID: 890-2368-44
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.3		4.95		mg/Kg			06/08/22 03:35	1

Surrogate Summary

Client: Ensolum

Job ID: 890-2368-1

Project/Site: North Brushy Draw Federal 35 #012H

SDG: 03a1987015

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-2368-1	SW09	98	99
890-2368-1 MS	SW09	104	102
890-2368-1 MSD	SW09	125	95
890-2368-2	SW10	124	93
890-2368-3	SW11	124	92
890-2368-4	SW12	130	90
890-2368-5	SW13	121	95
890-2368-6	SW14	105	100
890-2368-7	SW15	107	101
890-2368-8	SW16	108	100
890-2368-9	SW17	108	96
890-2368-10	SW18	101	94
890-2368-11	SW19	102	95
890-2368-12	FS09	114	91
890-2368-13	FS10	119	93
890-2368-14	FS22	124	93
890-2368-15	FS23	112	101
890-2368-16	FS24	111	91
890-2368-17	FS25	125	89
890-2368-18	FS26	124	89
890-2368-19	FS27	107	98
890-2368-20	FS28	108	93
890-2368-21	FS29	106	87
890-2368-21 MS	FS29	99	99
890-2368-21 MSD	FS29	98	100
890-2368-22	FS30	109	97
890-2368-23	FS31	99	88
890-2368-24	FS32	102	95
890-2368-25	FS33	102	93
890-2368-26	FS34	104	95
890-2368-27	FS35	104	95
890-2368-28	FS36	104	95
890-2368-29	FS37	110	92
890-2368-30	FS38	107	92
890-2368-31	FS39	103	95
890-2368-32	FS40	104	93
890-2368-33	FS41	108	85
890-2368-34	FS42	101	89
890-2368-35	FS43	108	95
890-2368-36	FS44	103	96
890-2368-37	FS45	99	93
890-2368-38	FS46	109	88
890-2368-39	FS47	102	96
890-2368-40	FS48	108	97
890-2368-41	FS49	104	94
890-2368-41 MS	FS49	97	100
890-2368-41 MSD	FS49	96	99
890-2368-42	FS50	103	95
890-2368-43	FS51	108	98

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Surrogate Summary

Client: Ensolum

Job ID: 890-2368-1

Project/Site: North Brushy Draw Federal 35 #012H

SDG: 03a1987015

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2368-44	FS52	105	96
LCS 880-26836/1-A	Lab Control Sample	124	97
LCS 880-26837/1-A	Lab Control Sample	102	102
LCS 880-26838/1-A	Lab Control Sample	98	99
LCSD 880-26836/2-A	Lab Control Sample Dup	117	96
LCSD 880-26837/2-A	Lab Control Sample Dup	99	100
LCSD 880-26838/2-A	Lab Control Sample Dup	107	98
MB 880-26741/5-A	Method Blank	99	104
MB 880-26836/5-A	Method Blank	106	97
MB 880-26837/5-A	Method Blank	101	91
MB 880-26838/5-A	Method Blank	99	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-15426-A-10-B MS	Matrix Spike	100	93
880-15426-A-10-C MSD	Matrix Spike Duplicate	107	97
890-2368-1	SW09	104	109
890-2368-1 MS	SW09	112	105
890-2368-1 MSD	SW09	105	101
890-2368-2	SW10	118	123
890-2368-3	SW11	115	118
890-2368-4	SW12	133 S1+	144 S1+
890-2368-5	SW13	116	117
890-2368-6	SW14	129	129
890-2368-7	SW15	117	120
890-2368-8	SW16	125	126
890-2368-9	SW17	127	127
890-2368-10	SW18	126	125
890-2368-11	SW19	119	118
890-2368-12	FS09	125	124
890-2368-13	FS10	114	114
890-2368-14	FS22	127	135 S1+
890-2368-15	FS23	126	133 S1+
890-2368-16	FS24	137 S1+	142 S1+
890-2368-17	FS25	133 S1+	135 S1+
890-2368-18	FS26	117	118
890-2368-19	FS27	120	124
890-2368-20	FS28	124	126
890-2368-21	FS29	101	102
890-2368-21 MS	FS29	83	75
890-2368-21 MSD	FS29	87	76
890-2368-22	FS30	96	93
890-2368-23	FS31	97	97

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Surrogate Summary

Client: Ensolum

Job ID: 890-2368-1

Project/Site: North Brushy Draw Federal 35 #012H

SDG: 03a1987015

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2368-24	FS32	101	99
890-2368-25	FS33	80	81
890-2368-26	FS34	94	95
890-2368-27	FS35	80	80
890-2368-28	FS36	94	90
890-2368-29	FS37	93	94
890-2368-30	FS38	94	96
890-2368-31	FS39	111	113
890-2368-32	FS40	112	117
890-2368-33	FS41	92	94
890-2368-34	FS42	92	93
890-2368-35	FS43	109	111
890-2368-36	FS44	97	101
890-2368-37	FS45	99	105
890-2368-38	FS46	102	106
890-2368-39	FS47	102	104
890-2368-40	FS48	106	107
890-2368-41	FS49	114	122
890-2368-42	FS50	116	119
890-2368-43	FS51	111	114
890-2368-44	FS52	112	115
LCS 880-26772/2-A	Lab Control Sample	128	119
LCS 880-26774/2-A	Lab Control Sample	127	121
LCS 880-26775/2-A	Lab Control Sample	114	112
LCSD 880-26772/3-A	Lab Control Sample Dup	113	107
LCSD 880-26774/3-A	Lab Control Sample Dup	126	119
LCSD 880-26775/3-A	Lab Control Sample Dup	132 S1+	129
MB 880-26772/1-A	Method Blank	100	112
MB 880-26774/1-A	Method Blank	121	128
MB 880-26775/1-A	Method Blank	97	106

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26741/5-A

Matrix: Solid

Analysis Batch: 26966

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26741

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 13:16	06/07/22 12:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 13:16	06/07/22 12:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 13:16	06/07/22 12:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/02/22 13:16	06/07/22 12:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 13:16	06/07/22 12:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/02/22 13:16	06/07/22 12:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/02/22 13:16	06/07/22 12:17	1
1,4-Difluorobenzene (Surr)	104		70 - 130	06/02/22 13:16	06/07/22 12:17	1

Lab Sample ID: MB 880-26836/5-A

Matrix: Solid

Analysis Batch: 26966

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/07/22 23:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/07/22 23:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/07/22 23:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/03/22 14:58	06/07/22 23:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 14:58	06/07/22 23:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/03/22 14:58	06/07/22 23:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/03/22 14:58	06/07/22 23:57	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/03/22 14:58	06/07/22 23:57	1

Lab Sample ID: LCS 880-26836/1-A

Matrix: Solid

Analysis Batch: 26966

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08986		mg/Kg		90	70 - 130
Toluene	0.100	0.1006		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1188		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2467		mg/Kg		123	70 - 130
o-Xylene	0.100	0.1146		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-26836/2-A

Matrix: Solid

Analysis Batch: 26966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26836

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09548		mg/Kg		95	70 - 130	6	35

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

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

Lab Sample ID: LCSD 880-26836/2-A

Matrix: Solid

Analysis Batch: 26966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26836

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1011		mg/Kg		101	70 - 130	1	35
Ethylbenzene	0.100	0.1137		mg/Kg		114	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2310		mg/Kg		116	70 - 130	7	35
o-Xylene	0.100	0.1078		mg/Kg		108	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-2368-1 MS

Matrix: Solid

Analysis Batch: 26966

Client Sample ID: SW09

Prep Type: Total/NA

Prep Batch: 26836

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.101	0.03994	F1	mg/Kg		40	70 - 130
Toluene	0.00207	F1	0.101	0.02927	F1	mg/Kg		27	70 - 130
Ethylbenzene	<0.00199	U F1	0.101	0.02252	F1	mg/Kg		22	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.04500	F1	mg/Kg		22	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.02290	F1	mg/Kg		22	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-2368-1 MSD

Matrix: Solid

Analysis Batch: 26966

Client Sample ID: SW09

Prep Type: Total/NA

Prep Batch: 26836

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.04377	F1	mg/Kg		44	70 - 130	9	35
Toluene	0.00207	F1	0.100	0.02960	F1	mg/Kg		27	70 - 130	1	35
Ethylbenzene	<0.00199	U F1	0.100	0.01914	F1	mg/Kg		19	70 - 130	16	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.04050	F1	mg/Kg		20	70 - 130	11	35
o-Xylene	<0.00199	U F1	0.100	0.02273	F1	mg/Kg		22	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-26837/5-A

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 09:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 09:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 09:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/03/22 15:03	06/05/22 09:25	1

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

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

Lab Sample ID: MB 880-26837/5-A

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:03	06/05/22 09:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/03/22 15:03	06/05/22 09:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/03/22 15:03	06/05/22 09:25	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/03/22 15:03	06/05/22 09:25	1

Lab Sample ID: LCS 880-26837/1-A

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09661		mg/Kg		97	70 - 130
Toluene	0.100	0.09006		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.09019		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1804		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09095		mg/Kg		91	70 - 130

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

Lab Sample ID: LCSD 880-26837/2-A

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26837

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09075		mg/Kg		91	70 - 130	6	35
Toluene	0.100	0.08570		mg/Kg		86	70 - 130	5	35
Ethylbenzene	0.100	0.08700		mg/Kg		87	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1744		mg/Kg		87	70 - 130	3	35
o-Xylene	0.100	0.08804		mg/Kg		88	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-2368-21 MS

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: FS29

Prep Type: Total/NA

Prep Batch: 26837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.07828		mg/Kg		79	70 - 130
Toluene	<0.00201	U	0.0996	0.07324		mg/Kg		73	70 - 130
Ethylbenzene	<0.00201	U	0.0996	0.07333		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1469		mg/Kg		73	70 - 130
o-Xylene	<0.00201	U	0.0996	0.07298		mg/Kg		73	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

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

Lab Sample ID: 890-2368-21 MS

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: FS29

Prep Type: Total/NA

Prep Batch: 26837

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

Lab Sample ID: 890-2368-21 MSD

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: FS29

Prep Type: Total/NA

Prep Batch: 26837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.08533		mg/Kg		85	70 - 130	9	35
Toluene	<0.00201	U	0.100	0.08063		mg/Kg		80	70 - 130	10	35
Ethylbenzene	<0.00201	U	0.100	0.08001		mg/Kg		80	70 - 130	9	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1604		mg/Kg		79	70 - 130	9	35
o-Xylene	<0.00201	U	0.100	0.07925		mg/Kg		79	70 - 130	8	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-26838/5-A

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:09	06/05/22 20:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:09	06/05/22 20:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:09	06/05/22 20:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/03/22 15:09	06/05/22 20:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 15:09	06/05/22 20:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/03/22 15:09	06/05/22 20:01	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	99		70 - 130	06/03/22 15:09	06/05/22 20:01	1			
1,4-Difluorobenzene (Surr)	91		70 - 130	06/03/22 15:09	06/05/22 20:01	1			

Lab Sample ID: LCS 880-26838/1-A

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09399		mg/Kg		94	70 - 130
Toluene	0.100	0.08843		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08833		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1766		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08950		mg/Kg		90	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

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

Lab Sample ID: LCS 880-26838/1-A

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26838

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-26838/2-A

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26838

			Spike	LCS	LCS						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Benzene			0.100	0.09481		mg/Kg		95	70 - 130	1	35
Toluene			0.100	0.09202		mg/Kg		92	70 - 130	4	35
Ethylbenzene			0.100	0.09525		mg/Kg		95	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1940		mg/Kg		97	70 - 130	9	35
o-Xylene			0.100	0.09899		mg/Kg		99	70 - 130	10	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-2368-41 MS

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: FS49

Prep Type: Total/NA

Prep Batch: 26838

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00199	U	0.101	0.09396		mg/Kg		93	70 - 130		
Toluene	<0.00199	U	0.101	0.08728		mg/Kg		86	70 - 130		
Ethylbenzene	<0.00199	U	0.101	0.08332		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1651		mg/Kg		82	70 - 130		
o-Xylene	<0.00199	U	0.101	0.08302		mg/Kg		82	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-2368-41 MSD

Matrix: Solid

Analysis Batch: 26862

Client Sample ID: FS49

Prep Type: Total/NA

Prep Batch: 26838

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.101	0.09484		mg/Kg		94	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.08783		mg/Kg		87	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.08438		mg/Kg		84	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1657		mg/Kg		82	70 - 130	0	35
o-Xylene	<0.00199	U	0.101	0.08336		mg/Kg		83	70 - 130	0	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

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

Lab Sample ID: MB 880-26772/1-A

Matrix: Solid

Analysis Batch: 26776

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:31	06/03/22 11:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:31	06/03/22 11:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:31	06/03/22 11:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				06/03/22 08:31	06/03/22 11:07	1
o-Terphenyl	112		70 - 130				06/03/22 08:31	06/03/22 11:07	1

Lab Sample ID: LCS 880-26772/2-A

Matrix: Solid

Analysis Batch: 26776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1083		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1155		mg/Kg		115	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	128		70 - 130				
o-Terphenyl	119		70 - 130				

Lab Sample ID: LCSD 880-26772/3-A

Matrix: Solid

Analysis Batch: 26776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26772

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	891.9		mg/Kg		89	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	1000	1035		mg/Kg		103	70 - 130	11	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	113		70 - 130						
o-Terphenyl	107		70 - 130						

Lab Sample ID: 880-15426-A-10-B MS

Matrix: Solid

Analysis Batch: 26776

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26772

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	997	956.7		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	896.8		mg/Kg		90	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

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

Lab Sample ID: 880-15426-A-10-B MS

Matrix: Solid

Analysis Batch: 26776

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26772

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 880-15426-A-10-C MSD

Matrix: Solid

Analysis Batch: 26776

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26772

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	1000	1057		mg/Kg		104	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	941.0		mg/Kg		94	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: MB 880-26774/1-A

Matrix: Solid

Analysis Batch: 26780

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 10:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 10:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:40	06/03/22 10:26	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				06/03/22 08:40	06/03/22 10:26	1
1-Chlorooctane	121		70 - 130				06/03/22 08:40	06/03/22 10:26	1
o-Terphenyl	128		70 - 130				06/03/22 08:40	06/03/22 10:26	1

Lab Sample ID: LCS 880-26774/2-A

Matrix: Solid

Analysis Batch: 26780

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	957.4		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1063		mg/Kg		106	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	121		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

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

Lab Sample ID: LCSD 880-26774/3-A

Matrix: Solid

Analysis Batch: 26780

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26774

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	962.3		mg/Kg		96	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1052		mg/Kg		105	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	126		70 - 130						
o-Terphenyl	119		70 - 130						

Lab Sample ID: 890-2368-1 MS

Matrix: Solid

Analysis Batch: 26780

Client Sample ID: SW09

Prep Type: Total/NA

Prep Batch: 26774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1096		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1195		mg/Kg		117	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	105		70 - 130								

Lab Sample ID: 890-2368-1 MSD

Matrix: Solid

Analysis Batch: 26780

Client Sample ID: SW09

Prep Type: Total/NA

Prep Batch: 26774

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	1000	1048		mg/Kg		103	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1149		mg/Kg		112	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: MB 880-26775/1-A

Matrix: Solid

Analysis Batch: 26782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 10:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 10:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/22 08:41	06/03/22 10:26	1

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

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

Lab Sample ID: MB 880-26775/1-A

Matrix: Solid

Analysis Batch: 26782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26775

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	06/03/22 08:41	06/03/22 10:26	1
o-Terphenyl	106		70 - 130	06/03/22 08:41	06/03/22 10:26	1

Lab Sample ID: LCS 880-26775/2-A

Matrix: Solid

Analysis Batch: 26782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	833.8		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	854.8		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-26775/3-A

Matrix: Solid

Analysis Batch: 26782

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26775

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	975.5		mg/Kg		98	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	981.8		mg/Kg		98	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: 890-2368-21 MS

Matrix: Solid

Analysis Batch: 26782

Client Sample ID: FS29

Prep Type: Total/NA

Prep Batch: 26775

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	997	832.9		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	796.9		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	75		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

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

Lab Sample ID: 890-2368-21 MSD

Matrix: Solid

Analysis Batch: 26782

Client Sample ID: FS29

Prep Type: Total/NA

Prep Batch: 26775

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	1000	809.8		mg/Kg		81	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	826.4		mg/Kg		78	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	76		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26806/1-A

Matrix: Solid

Analysis Batch: 26860

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/05/22 07:52	1

Lab Sample ID: LCS 880-26806/2-A

Matrix: Solid

Analysis Batch: 26860

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-26806/3-A

Matrix: Solid

Analysis Batch: 26860

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	244.2		mg/Kg		98	90 - 110	6	20

Lab Sample ID: 890-2368-1 MS

Matrix: Solid

Analysis Batch: 26860

Client Sample ID: SW09

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	132		248	367.5		mg/Kg		95	90 - 110

Lab Sample ID: 890-2368-1 MSD

Matrix: Solid

Analysis Batch: 26860

Client Sample ID: SW09

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	132		248	357.4		mg/Kg		91	90 - 110	3	20

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2368-11 MS

Matrix: Solid

Analysis Batch: 26860

Client Sample ID: SW19

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	46.0		250	283.2		mg/Kg		95	90 - 110

Lab Sample ID: 890-2368-11 MSD

Matrix: Solid

Analysis Batch: 26860

Client Sample ID: SW19

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	46.0		250	275.8		mg/Kg		92	90 - 110	3	20

Lab Sample ID: MB 880-26812/1-A

Matrix: Solid

Analysis Batch: 26861

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/05/22 13:14	1

Lab Sample ID: LCS 880-26812/2-A

Matrix: Solid

Analysis Batch: 26861

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.0		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-26812/3-A

Matrix: Solid

Analysis Batch: 26861

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	256.3		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 890-2368-21 MS

Matrix: Solid

Analysis Batch: 26861

Client Sample ID: FS29

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	49.9		249	284.8		mg/Kg		94	90 - 110

Lab Sample ID: 890-2368-21 MSD

Matrix: Solid

Analysis Batch: 26861

Client Sample ID: FS29

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	49.9		249	289.7		mg/Kg		96	90 - 110	2	20

Lab Sample ID: 890-2368-31 MS

Matrix: Solid

Analysis Batch: 26861

Client Sample ID: FS39

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	322	F1	248	532.9	F1	mg/Kg		85	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2368-31 MSD

Matrix: Solid

Analysis Batch: 26861

Client Sample ID: FS39

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	322	F1	248	535.7	F1	mg/Kg		86	90 - 110	1	20

Lab Sample ID: MB 880-26916/1-A

Matrix: Solid

Analysis Batch: 27058

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/08/22 00:30	1

Lab Sample ID: LCS 880-26916/2-A

Matrix: Solid

Analysis Batch: 27058

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.8		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-26916/3-A

Matrix: Solid

Analysis Batch: 27058

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	254.5		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-2368-43 MS

Matrix: Solid

Analysis Batch: 27058

Client Sample ID: FS51

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	74.6		250	332.5		mg/Kg		103	90 - 110

Lab Sample ID: 890-2368-43 MSD

Matrix: Solid

Analysis Batch: 27058

Client Sample ID: FS51

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	74.6		250	324.9		mg/Kg		100	90 - 110	2	20

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

GC VOA

Prep Batch: 26741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-26741/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 26836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-1	SW09	Total/NA	Solid	5035	
890-2368-2	SW10	Total/NA	Solid	5035	
890-2368-3	SW11	Total/NA	Solid	5035	
890-2368-4	SW12	Total/NA	Solid	5035	
890-2368-5	SW13	Total/NA	Solid	5035	
890-2368-6	SW14	Total/NA	Solid	5035	
890-2368-7	SW15	Total/NA	Solid	5035	
890-2368-8	SW16	Total/NA	Solid	5035	
890-2368-9	SW17	Total/NA	Solid	5035	
890-2368-10	SW18	Total/NA	Solid	5035	
890-2368-11	SW19	Total/NA	Solid	5035	
890-2368-12	FS09	Total/NA	Solid	5035	
890-2368-13	FS10	Total/NA	Solid	5035	
890-2368-14	FS22	Total/NA	Solid	5035	
890-2368-15	FS23	Total/NA	Solid	5035	
890-2368-16	FS24	Total/NA	Solid	5035	
890-2368-17	FS25	Total/NA	Solid	5035	
890-2368-18	FS26	Total/NA	Solid	5035	
890-2368-19	FS27	Total/NA	Solid	5035	
890-2368-20	FS28	Total/NA	Solid	5035	
MB 880-26836/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26836/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26836/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2368-1 MS	SW09	Total/NA	Solid	5035	
890-2368-1 MSD	SW09	Total/NA	Solid	5035	

Prep Batch: 26837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-21	FS29	Total/NA	Solid	5035	
890-2368-22	FS30	Total/NA	Solid	5035	
890-2368-23	FS31	Total/NA	Solid	5035	
890-2368-24	FS32	Total/NA	Solid	5035	
890-2368-25	FS33	Total/NA	Solid	5035	
890-2368-26	FS34	Total/NA	Solid	5035	
890-2368-27	FS35	Total/NA	Solid	5035	
890-2368-28	FS36	Total/NA	Solid	5035	
890-2368-29	FS37	Total/NA	Solid	5035	
890-2368-30	FS38	Total/NA	Solid	5035	
890-2368-31	FS39	Total/NA	Solid	5035	
890-2368-32	FS40	Total/NA	Solid	5035	
890-2368-33	FS41	Total/NA	Solid	5035	
890-2368-34	FS42	Total/NA	Solid	5035	
890-2368-35	FS43	Total/NA	Solid	5035	
890-2368-36	FS44	Total/NA	Solid	5035	
890-2368-37	FS45	Total/NA	Solid	5035	
890-2368-38	FS46	Total/NA	Solid	5035	
890-2368-39	FS47	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

GC VOA (Continued)

Prep Batch: 26837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-40	FS48	Total/NA	Solid	5035	
MB 880-26837/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26837/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26837/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2368-21 MS	FS29	Total/NA	Solid	5035	
890-2368-21 MSD	FS29	Total/NA	Solid	5035	

Prep Batch: 26838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-41	FS49	Total/NA	Solid	5035	
890-2368-42	FS50	Total/NA	Solid	5035	
890-2368-43	FS51	Total/NA	Solid	5035	
890-2368-44	FS52	Total/NA	Solid	5035	
MB 880-26838/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26838/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26838/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2368-41 MS	FS49	Total/NA	Solid	5035	
890-2368-41 MSD	FS49	Total/NA	Solid	5035	

Analysis Batch: 26862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-21	FS29	Total/NA	Solid	8021B	26837
890-2368-22	FS30	Total/NA	Solid	8021B	26837
890-2368-23	FS31	Total/NA	Solid	8021B	26837
890-2368-24	FS32	Total/NA	Solid	8021B	26837
890-2368-25	FS33	Total/NA	Solid	8021B	26837
890-2368-26	FS34	Total/NA	Solid	8021B	26837
890-2368-27	FS35	Total/NA	Solid	8021B	26837
890-2368-28	FS36	Total/NA	Solid	8021B	26837
890-2368-29	FS37	Total/NA	Solid	8021B	26837
890-2368-30	FS38	Total/NA	Solid	8021B	26837
890-2368-31	FS39	Total/NA	Solid	8021B	26837
890-2368-32	FS40	Total/NA	Solid	8021B	26837
890-2368-33	FS41	Total/NA	Solid	8021B	26837
890-2368-34	FS42	Total/NA	Solid	8021B	26837
890-2368-35	FS43	Total/NA	Solid	8021B	26837
890-2368-36	FS44	Total/NA	Solid	8021B	26837
890-2368-37	FS45	Total/NA	Solid	8021B	26837
890-2368-38	FS46	Total/NA	Solid	8021B	26837
890-2368-39	FS47	Total/NA	Solid	8021B	26837
890-2368-40	FS48	Total/NA	Solid	8021B	26837
890-2368-41	FS49	Total/NA	Solid	8021B	26838
890-2368-42	FS50	Total/NA	Solid	8021B	26838
890-2368-43	FS51	Total/NA	Solid	8021B	26838
890-2368-44	FS52	Total/NA	Solid	8021B	26838
MB 880-26837/5-A	Method Blank	Total/NA	Solid	8021B	26837
MB 880-26838/5-A	Method Blank	Total/NA	Solid	8021B	26838
LCS 880-26837/1-A	Lab Control Sample	Total/NA	Solid	8021B	26837
LCS 880-26838/1-A	Lab Control Sample	Total/NA	Solid	8021B	26838
LCSD 880-26837/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26837
LCSD 880-26838/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26838

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

GC VOA (Continued)

Analysis Batch: 26862 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-21 MS	FS29	Total/NA	Solid	8021B	26837
890-2368-21 MSD	FS29	Total/NA	Solid	8021B	26837
890-2368-41 MS	FS49	Total/NA	Solid	8021B	26838
890-2368-41 MSD	FS49	Total/NA	Solid	8021B	26838

Analysis Batch: 26926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-1	SW09	Total/NA	Solid	Total BTEX	
890-2368-2	SW10	Total/NA	Solid	Total BTEX	
890-2368-3	SW11	Total/NA	Solid	Total BTEX	
890-2368-4	SW12	Total/NA	Solid	Total BTEX	
890-2368-5	SW13	Total/NA	Solid	Total BTEX	
890-2368-6	SW14	Total/NA	Solid	Total BTEX	
890-2368-7	SW15	Total/NA	Solid	Total BTEX	
890-2368-8	SW16	Total/NA	Solid	Total BTEX	
890-2368-9	SW17	Total/NA	Solid	Total BTEX	
890-2368-10	SW18	Total/NA	Solid	Total BTEX	
890-2368-11	SW19	Total/NA	Solid	Total BTEX	
890-2368-12	FS09	Total/NA	Solid	Total BTEX	
890-2368-13	FS10	Total/NA	Solid	Total BTEX	
890-2368-14	FS22	Total/NA	Solid	Total BTEX	
890-2368-15	FS23	Total/NA	Solid	Total BTEX	
890-2368-16	FS24	Total/NA	Solid	Total BTEX	
890-2368-17	FS25	Total/NA	Solid	Total BTEX	
890-2368-18	FS26	Total/NA	Solid	Total BTEX	
890-2368-19	FS27	Total/NA	Solid	Total BTEX	
890-2368-20	FS28	Total/NA	Solid	Total BTEX	
890-2368-21	FS29	Total/NA	Solid	Total BTEX	
890-2368-22	FS30	Total/NA	Solid	Total BTEX	
890-2368-23	FS31	Total/NA	Solid	Total BTEX	
890-2368-24	FS32	Total/NA	Solid	Total BTEX	
890-2368-25	FS33	Total/NA	Solid	Total BTEX	
890-2368-26	FS34	Total/NA	Solid	Total BTEX	
890-2368-27	FS35	Total/NA	Solid	Total BTEX	
890-2368-28	FS36	Total/NA	Solid	Total BTEX	
890-2368-29	FS37	Total/NA	Solid	Total BTEX	
890-2368-30	FS38	Total/NA	Solid	Total BTEX	
890-2368-31	FS39	Total/NA	Solid	Total BTEX	
890-2368-32	FS40	Total/NA	Solid	Total BTEX	
890-2368-33	FS41	Total/NA	Solid	Total BTEX	
890-2368-34	FS42	Total/NA	Solid	Total BTEX	
890-2368-35	FS43	Total/NA	Solid	Total BTEX	
890-2368-36	FS44	Total/NA	Solid	Total BTEX	
890-2368-37	FS45	Total/NA	Solid	Total BTEX	
890-2368-38	FS46	Total/NA	Solid	Total BTEX	
890-2368-39	FS47	Total/NA	Solid	Total BTEX	
890-2368-40	FS48	Total/NA	Solid	Total BTEX	
890-2368-41	FS49	Total/NA	Solid	Total BTEX	
890-2368-42	FS50	Total/NA	Solid	Total BTEX	
890-2368-43	FS51	Total/NA	Solid	Total BTEX	
890-2368-44	FS52	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

GC VOA

Analysis Batch: 26966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-1	SW09	Total/NA	Solid	8021B	26836
890-2368-2	SW10	Total/NA	Solid	8021B	26836
890-2368-3	SW11	Total/NA	Solid	8021B	26836
890-2368-4	SW12	Total/NA	Solid	8021B	26836
890-2368-5	SW13	Total/NA	Solid	8021B	26836
890-2368-6	SW14	Total/NA	Solid	8021B	26836
890-2368-7	SW15	Total/NA	Solid	8021B	26836
890-2368-8	SW16	Total/NA	Solid	8021B	26836
890-2368-9	SW17	Total/NA	Solid	8021B	26836
890-2368-10	SW18	Total/NA	Solid	8021B	26836
890-2368-11	SW19	Total/NA	Solid	8021B	26836
890-2368-12	FS09	Total/NA	Solid	8021B	26836
890-2368-13	FS10	Total/NA	Solid	8021B	26836
890-2368-14	FS22	Total/NA	Solid	8021B	26836
890-2368-15	FS23	Total/NA	Solid	8021B	26836
890-2368-16	FS24	Total/NA	Solid	8021B	26836
890-2368-17	FS25	Total/NA	Solid	8021B	26836
890-2368-18	FS26	Total/NA	Solid	8021B	26836
890-2368-19	FS27	Total/NA	Solid	8021B	26836
890-2368-20	FS28	Total/NA	Solid	8021B	26836
MB 880-26741/5-A	Method Blank	Total/NA	Solid	8021B	26741
MB 880-26836/5-A	Method Blank	Total/NA	Solid	8021B	26836
LCS 880-26836/1-A	Lab Control Sample	Total/NA	Solid	8021B	26836
LCSD 880-26836/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26836
890-2368-1 MS	SW09	Total/NA	Solid	8021B	26836
890-2368-1 MSD	SW09	Total/NA	Solid	8021B	26836

GC Semi VOA

Prep Batch: 26772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-41	FS49	Total/NA	Solid	8015NM Prep	
890-2368-42	FS50	Total/NA	Solid	8015NM Prep	
890-2368-43	FS51	Total/NA	Solid	8015NM Prep	
890-2368-44	FS52	Total/NA	Solid	8015NM Prep	
MB 880-26772/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26772/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26772/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15426-A-10-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-15426-A-10-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 26774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-1	SW09	Total/NA	Solid	8015NM Prep	
890-2368-2	SW10	Total/NA	Solid	8015NM Prep	
890-2368-3	SW11	Total/NA	Solid	8015NM Prep	
890-2368-4	SW12	Total/NA	Solid	8015NM Prep	
890-2368-5	SW13	Total/NA	Solid	8015NM Prep	
890-2368-6	SW14	Total/NA	Solid	8015NM Prep	
890-2368-7	SW15	Total/NA	Solid	8015NM Prep	
890-2368-8	SW16	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

GC Semi VOA (Continued)

Prep Batch: 26774 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-9	SW17	Total/NA	Solid	8015NM Prep	
890-2368-10	SW18	Total/NA	Solid	8015NM Prep	
890-2368-11	SW19	Total/NA	Solid	8015NM Prep	
890-2368-12	FS09	Total/NA	Solid	8015NM Prep	
890-2368-13	FS10	Total/NA	Solid	8015NM Prep	
890-2368-14	FS22	Total/NA	Solid	8015NM Prep	
890-2368-15	FS23	Total/NA	Solid	8015NM Prep	
890-2368-16	FS24	Total/NA	Solid	8015NM Prep	
890-2368-17	FS25	Total/NA	Solid	8015NM Prep	
890-2368-18	FS26	Total/NA	Solid	8015NM Prep	
890-2368-19	FS27	Total/NA	Solid	8015NM Prep	
890-2368-20	FS28	Total/NA	Solid	8015NM Prep	
MB 880-26774/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26774/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26774/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2368-1 MS	SW09	Total/NA	Solid	8015NM Prep	
890-2368-1 MSD	SW09	Total/NA	Solid	8015NM Prep	

Prep Batch: 26775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-21	FS29	Total/NA	Solid	8015NM Prep	
890-2368-22	FS30	Total/NA	Solid	8015NM Prep	
890-2368-23	FS31	Total/NA	Solid	8015NM Prep	
890-2368-24	FS32	Total/NA	Solid	8015NM Prep	
890-2368-25	FS33	Total/NA	Solid	8015NM Prep	
890-2368-26	FS34	Total/NA	Solid	8015NM Prep	
890-2368-27	FS35	Total/NA	Solid	8015NM Prep	
890-2368-28	FS36	Total/NA	Solid	8015NM Prep	
890-2368-29	FS37	Total/NA	Solid	8015NM Prep	
890-2368-30	FS38	Total/NA	Solid	8015NM Prep	
890-2368-31	FS39	Total/NA	Solid	8015NM Prep	
890-2368-32	FS40	Total/NA	Solid	8015NM Prep	
890-2368-33	FS41	Total/NA	Solid	8015NM Prep	
890-2368-34	FS42	Total/NA	Solid	8015NM Prep	
890-2368-35	FS43	Total/NA	Solid	8015NM Prep	
890-2368-36	FS44	Total/NA	Solid	8015NM Prep	
890-2368-37	FS45	Total/NA	Solid	8015NM Prep	
890-2368-38	FS46	Total/NA	Solid	8015NM Prep	
890-2368-39	FS47	Total/NA	Solid	8015NM Prep	
890-2368-40	FS48	Total/NA	Solid	8015NM Prep	
MB 880-26775/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26775/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26775/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2368-21 MS	FS29	Total/NA	Solid	8015NM Prep	
890-2368-21 MSD	FS29	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-41	FS49	Total/NA	Solid	8015B NM	26772
890-2368-42	FS50	Total/NA	Solid	8015B NM	26772
890-2368-43	FS51	Total/NA	Solid	8015B NM	26772

Eurofins Carlsbad

QC Association Summary

Client: Ensolum

Job ID: 890-2368-1

Project/Site: North Brushy Draw Federal 35 #012H

SDG: 03a1987015

GC Semi VOA (Continued)

Analysis Batch: 26776 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-44	FS52	Total/NA	Solid	8015B NM	26772
MB 880-26772/1-A	Method Blank	Total/NA	Solid	8015B NM	26772
LCS 880-26772/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26772
LCSD 880-26772/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26772
880-15426-A-10-B MS	Matrix Spike	Total/NA	Solid	8015B NM	26772
880-15426-A-10-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26772

Analysis Batch: 26780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-1	SW09	Total/NA	Solid	8015B NM	26774
890-2368-2	SW10	Total/NA	Solid	8015B NM	26774
890-2368-3	SW11	Total/NA	Solid	8015B NM	26774
890-2368-4	SW12	Total/NA	Solid	8015B NM	26774
890-2368-5	SW13	Total/NA	Solid	8015B NM	26774
890-2368-6	SW14	Total/NA	Solid	8015B NM	26774
890-2368-7	SW15	Total/NA	Solid	8015B NM	26774
890-2368-8	SW16	Total/NA	Solid	8015B NM	26774
890-2368-9	SW17	Total/NA	Solid	8015B NM	26774
890-2368-10	SW18	Total/NA	Solid	8015B NM	26774
890-2368-11	SW19	Total/NA	Solid	8015B NM	26774
890-2368-12	FS09	Total/NA	Solid	8015B NM	26774
890-2368-13	FS10	Total/NA	Solid	8015B NM	26774
890-2368-14	FS22	Total/NA	Solid	8015B NM	26774
890-2368-15	FS23	Total/NA	Solid	8015B NM	26774
890-2368-16	FS24	Total/NA	Solid	8015B NM	26774
890-2368-17	FS25	Total/NA	Solid	8015B NM	26774
890-2368-18	FS26	Total/NA	Solid	8015B NM	26774
890-2368-19	FS27	Total/NA	Solid	8015B NM	26774
890-2368-20	FS28	Total/NA	Solid	8015B NM	26774
MB 880-26774/1-A	Method Blank	Total/NA	Solid	8015B NM	26774
LCS 880-26774/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26774
LCSD 880-26774/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26774
890-2368-1 MS	SW09	Total/NA	Solid	8015B NM	26774
890-2368-1 MSD	SW09	Total/NA	Solid	8015B NM	26774

Analysis Batch: 26782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-21	FS29	Total/NA	Solid	8015B NM	26775
890-2368-22	FS30	Total/NA	Solid	8015B NM	26775
890-2368-23	FS31	Total/NA	Solid	8015B NM	26775
890-2368-24	FS32	Total/NA	Solid	8015B NM	26775
890-2368-25	FS33	Total/NA	Solid	8015B NM	26775
890-2368-26	FS34	Total/NA	Solid	8015B NM	26775
890-2368-27	FS35	Total/NA	Solid	8015B NM	26775
890-2368-28	FS36	Total/NA	Solid	8015B NM	26775
890-2368-29	FS37	Total/NA	Solid	8015B NM	26775
890-2368-30	FS38	Total/NA	Solid	8015B NM	26775
890-2368-31	FS39	Total/NA	Solid	8015B NM	26775
890-2368-32	FS40	Total/NA	Solid	8015B NM	26775
890-2368-33	FS41	Total/NA	Solid	8015B NM	26775
890-2368-34	FS42	Total/NA	Solid	8015B NM	26775

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

GC Semi VOA (Continued)

Analysis Batch: 26782 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-35	FS43	Total/NA	Solid	8015B NM	26775
890-2368-36	FS44	Total/NA	Solid	8015B NM	26775
890-2368-37	FS45	Total/NA	Solid	8015B NM	26775
890-2368-38	FS46	Total/NA	Solid	8015B NM	26775
890-2368-39	FS47	Total/NA	Solid	8015B NM	26775
890-2368-40	FS48	Total/NA	Solid	8015B NM	26775
MB 880-26775/1-A	Method Blank	Total/NA	Solid	8015B NM	26775
LCS 880-26775/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26775
LCSD 880-26775/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26775
890-2368-21 MS	FS29	Total/NA	Solid	8015B NM	26775
890-2368-21 MSD	FS29	Total/NA	Solid	8015B NM	26775

Analysis Batch: 26881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-1	SW09	Total/NA	Solid	8015 NM	
890-2368-2	SW10	Total/NA	Solid	8015 NM	
890-2368-3	SW11	Total/NA	Solid	8015 NM	
890-2368-4	SW12	Total/NA	Solid	8015 NM	
890-2368-5	SW13	Total/NA	Solid	8015 NM	
890-2368-6	SW14	Total/NA	Solid	8015 NM	
890-2368-7	SW15	Total/NA	Solid	8015 NM	
890-2368-8	SW16	Total/NA	Solid	8015 NM	
890-2368-9	SW17	Total/NA	Solid	8015 NM	
890-2368-10	SW18	Total/NA	Solid	8015 NM	
890-2368-11	SW19	Total/NA	Solid	8015 NM	
890-2368-12	FS09	Total/NA	Solid	8015 NM	
890-2368-13	FS10	Total/NA	Solid	8015 NM	
890-2368-14	FS22	Total/NA	Solid	8015 NM	
890-2368-15	FS23	Total/NA	Solid	8015 NM	
890-2368-16	FS24	Total/NA	Solid	8015 NM	
890-2368-17	FS25	Total/NA	Solid	8015 NM	
890-2368-18	FS26	Total/NA	Solid	8015 NM	
890-2368-19	FS27	Total/NA	Solid	8015 NM	
890-2368-20	FS28	Total/NA	Solid	8015 NM	
890-2368-21	FS29	Total/NA	Solid	8015 NM	
890-2368-22	FS30	Total/NA	Solid	8015 NM	
890-2368-23	FS31	Total/NA	Solid	8015 NM	
890-2368-24	FS32	Total/NA	Solid	8015 NM	
890-2368-25	FS33	Total/NA	Solid	8015 NM	
890-2368-26	FS34	Total/NA	Solid	8015 NM	
890-2368-27	FS35	Total/NA	Solid	8015 NM	
890-2368-28	FS36	Total/NA	Solid	8015 NM	
890-2368-29	FS37	Total/NA	Solid	8015 NM	
890-2368-30	FS38	Total/NA	Solid	8015 NM	
890-2368-31	FS39	Total/NA	Solid	8015 NM	
890-2368-32	FS40	Total/NA	Solid	8015 NM	
890-2368-33	FS41	Total/NA	Solid	8015 NM	
890-2368-34	FS42	Total/NA	Solid	8015 NM	
890-2368-35	FS43	Total/NA	Solid	8015 NM	
890-2368-36	FS44	Total/NA	Solid	8015 NM	
890-2368-37	FS45	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

GC Semi VOA (Continued)

Analysis Batch: 26881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-38	FS46	Total/NA	Solid	8015 NM	
890-2368-39	FS47	Total/NA	Solid	8015 NM	
890-2368-40	FS48	Total/NA	Solid	8015 NM	
890-2368-41	FS49	Total/NA	Solid	8015 NM	
890-2368-42	FS50	Total/NA	Solid	8015 NM	
890-2368-43	FS51	Total/NA	Solid	8015 NM	
890-2368-44	FS52	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 26806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-1	SW09	Soluble	Solid	DI Leach	
890-2368-2	SW10	Soluble	Solid	DI Leach	
890-2368-3	SW11	Soluble	Solid	DI Leach	
890-2368-4	SW12	Soluble	Solid	DI Leach	
890-2368-5	SW13	Soluble	Solid	DI Leach	
890-2368-6	SW14	Soluble	Solid	DI Leach	
890-2368-7	SW15	Soluble	Solid	DI Leach	
890-2368-8	SW16	Soluble	Solid	DI Leach	
890-2368-9	SW17	Soluble	Solid	DI Leach	
890-2368-10	SW18	Soluble	Solid	DI Leach	
890-2368-11	SW19	Soluble	Solid	DI Leach	
890-2368-12	FS09	Soluble	Solid	DI Leach	
890-2368-13	FS10	Soluble	Solid	DI Leach	
890-2368-14	FS22	Soluble	Solid	DI Leach	
890-2368-15	FS23	Soluble	Solid	DI Leach	
890-2368-16	FS24	Soluble	Solid	DI Leach	
890-2368-17	FS25	Soluble	Solid	DI Leach	
890-2368-18	FS26	Soluble	Solid	DI Leach	
890-2368-19	FS27	Soluble	Solid	DI Leach	
890-2368-20	FS28	Soluble	Solid	DI Leach	
MB 880-26806/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26806/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26806/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2368-1 MS	SW09	Soluble	Solid	DI Leach	
890-2368-1 MSD	SW09	Soluble	Solid	DI Leach	
890-2368-11 MS	SW19	Soluble	Solid	DI Leach	
890-2368-11 MSD	SW19	Soluble	Solid	DI Leach	

Leach Batch: 26812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-21	FS29	Soluble	Solid	DI Leach	
890-2368-22	FS30	Soluble	Solid	DI Leach	
890-2368-23	FS31	Soluble	Solid	DI Leach	
890-2368-24	FS32	Soluble	Solid	DI Leach	
890-2368-25	FS33	Soluble	Solid	DI Leach	
890-2368-26	FS34	Soluble	Solid	DI Leach	
890-2368-27	FS35	Soluble	Solid	DI Leach	
890-2368-28	FS36	Soluble	Solid	DI Leach	
890-2368-29	FS37	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

HPLC/IC (Continued)

Leach Batch: 26812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-30	FS38	Soluble	Solid	DI Leach	
890-2368-31	FS39	Soluble	Solid	DI Leach	
890-2368-32	FS40	Soluble	Solid	DI Leach	
890-2368-33	FS41	Soluble	Solid	DI Leach	
890-2368-34	FS42	Soluble	Solid	DI Leach	
890-2368-35	FS43	Soluble	Solid	DI Leach	
890-2368-36	FS44	Soluble	Solid	DI Leach	
890-2368-37	FS45	Soluble	Solid	DI Leach	
890-2368-38	FS46	Soluble	Solid	DI Leach	
890-2368-39	FS47	Soluble	Solid	DI Leach	
890-2368-40	FS48	Soluble	Solid	DI Leach	
MB 880-26812/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26812/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26812/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2368-21 MS	FS29	Soluble	Solid	DI Leach	
890-2368-21 MSD	FS29	Soluble	Solid	DI Leach	
890-2368-31 MS	FS39	Soluble	Solid	DI Leach	
890-2368-31 MSD	FS39	Soluble	Solid	DI Leach	

Analysis Batch: 26860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-1	SW09	Soluble	Solid	300.0	26806
890-2368-2	SW10	Soluble	Solid	300.0	26806
890-2368-3	SW11	Soluble	Solid	300.0	26806
890-2368-4	SW12	Soluble	Solid	300.0	26806
890-2368-5	SW13	Soluble	Solid	300.0	26806
890-2368-6	SW14	Soluble	Solid	300.0	26806
890-2368-7	SW15	Soluble	Solid	300.0	26806
890-2368-8	SW16	Soluble	Solid	300.0	26806
890-2368-9	SW17	Soluble	Solid	300.0	26806
890-2368-10	SW18	Soluble	Solid	300.0	26806
890-2368-11	SW19	Soluble	Solid	300.0	26806
890-2368-12	FS09	Soluble	Solid	300.0	26806
890-2368-13	FS10	Soluble	Solid	300.0	26806
890-2368-14	FS22	Soluble	Solid	300.0	26806
890-2368-15	FS23	Soluble	Solid	300.0	26806
890-2368-16	FS24	Soluble	Solid	300.0	26806
890-2368-17	FS25	Soluble	Solid	300.0	26806
890-2368-18	FS26	Soluble	Solid	300.0	26806
890-2368-19	FS27	Soluble	Solid	300.0	26806
890-2368-20	FS28	Soluble	Solid	300.0	26806
MB 880-26806/1-A	Method Blank	Soluble	Solid	300.0	26806
LCS 880-26806/2-A	Lab Control Sample	Soluble	Solid	300.0	26806
LCSD 880-26806/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26806
890-2368-1 MS	SW09	Soluble	Solid	300.0	26806
890-2368-1 MSD	SW09	Soluble	Solid	300.0	26806
890-2368-11 MS	SW19	Soluble	Solid	300.0	26806
890-2368-11 MSD	SW19	Soluble	Solid	300.0	26806

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QC Association Summary

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

HPLC/IC

Analysis Batch: 26861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-21	FS29	Soluble	Solid	300.0	26812
890-2368-22	FS30	Soluble	Solid	300.0	26812
890-2368-23	FS31	Soluble	Solid	300.0	26812
890-2368-24	FS32	Soluble	Solid	300.0	26812
890-2368-25	FS33	Soluble	Solid	300.0	26812
890-2368-26	FS34	Soluble	Solid	300.0	26812
890-2368-27	FS35	Soluble	Solid	300.0	26812
890-2368-28	FS36	Soluble	Solid	300.0	26812
890-2368-29	FS37	Soluble	Solid	300.0	26812
890-2368-30	FS38	Soluble	Solid	300.0	26812
890-2368-31	FS39	Soluble	Solid	300.0	26812
890-2368-32	FS40	Soluble	Solid	300.0	26812
890-2368-33	FS41	Soluble	Solid	300.0	26812
890-2368-34	FS42	Soluble	Solid	300.0	26812
890-2368-35	FS43	Soluble	Solid	300.0	26812
890-2368-36	FS44	Soluble	Solid	300.0	26812
890-2368-37	FS45	Soluble	Solid	300.0	26812
890-2368-38	FS46	Soluble	Solid	300.0	26812
890-2368-39	FS47	Soluble	Solid	300.0	26812
890-2368-40	FS48	Soluble	Solid	300.0	26812
MB 880-26812/1-A	Method Blank	Soluble	Solid	300.0	26812
LCS 880-26812/2-A	Lab Control Sample	Soluble	Solid	300.0	26812
LCSD 880-26812/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26812
890-2368-21 MS	FS29	Soluble	Solid	300.0	26812
890-2368-21 MSD	FS29	Soluble	Solid	300.0	26812
890-2368-31 MS	FS39	Soluble	Solid	300.0	26812
890-2368-31 MSD	FS39	Soluble	Solid	300.0	26812

Leach Batch: 26916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-41	FS49	Soluble	Solid	DI Leach	
890-2368-42	FS50	Soluble	Solid	DI Leach	
890-2368-43	FS51	Soluble	Solid	DI Leach	
890-2368-44	FS52	Soluble	Solid	DI Leach	
MB 880-26916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26916/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2368-43 MS	FS51	Soluble	Solid	DI Leach	
890-2368-43 MSD	FS51	Soluble	Solid	DI Leach	

Analysis Batch: 27058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2368-41	FS49	Soluble	Solid	300.0	26916
890-2368-42	FS50	Soluble	Solid	300.0	26916
890-2368-43	FS51	Soluble	Solid	300.0	26916
890-2368-44	FS52	Soluble	Solid	300.0	26916
MB 880-26916/1-A	Method Blank	Soluble	Solid	300.0	26916
LCS 880-26916/2-A	Lab Control Sample	Soluble	Solid	300.0	26916
LCSD 880-26916/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26916
890-2368-43 MS	FS51	Soluble	Solid	300.0	26916
890-2368-43 MSD	FS51	Soluble	Solid	300.0	26916

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Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW09

Lab Sample ID: 890-2368-1

Date Collected: 06/01/22 08:30

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 00:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 12:06	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 08:20	CH	XEN MID

Client Sample ID: SW10

Lab Sample ID: 890-2368-2

Date Collected: 06/01/22 08:35

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 00:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 13:59	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 08:47	CH	XEN MID

Client Sample ID: SW11

Lab Sample ID: 890-2368-3

Date Collected: 06/01/22 08:40

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 01:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 14:21	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 08:56	CH	XEN MID

Client Sample ID: SW12

Lab Sample ID: 890-2368-4

Date Collected: 06/01/22 08:45

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 01:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW12

Lab Sample ID: 890-2368-4

Date Collected: 06/01/22 08:45

Matrix: Solid

Date Received: 06/02/22 11:30

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			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 14:42	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 09:06	CH	XEN MID

Client Sample ID: SW13

Lab Sample ID: 890-2368-5

Date Collected: 06/01/22 08:50

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 01:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 15:04	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 09:15	CH	XEN MID

Client Sample ID: SW14

Lab Sample ID: 890-2368-6

Date Collected: 06/01/22 08:55

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 02:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 15:25	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 09:42	CH	XEN MID

Client Sample ID: SW15

Lab Sample ID: 890-2368-7

Date Collected: 06/01/22 09:00

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 02:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 15:47	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW15

Lab Sample ID: 890-2368-7

Date Collected: 06/01/22 09:00

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 09:52	CH	XEN MID

Client Sample ID: SW16

Lab Sample ID: 890-2368-8

Date Collected: 06/01/22 09:05

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 02:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 16:09	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 10:01	CH	XEN MID

Client Sample ID: SW17

Lab Sample ID: 890-2368-9

Date Collected: 06/01/22 09:10

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 03:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 16:30	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 10:10	CH	XEN MID

Client Sample ID: SW18

Lab Sample ID: 890-2368-10

Date Collected: 06/01/22 09:15

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 03:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 16:52	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 10:19	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: SW19

Lab Sample ID: 890-2368-11

Date Collected: 06/01/22 09:20

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 04:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 17:38	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 10:28	CH	XEN MID

Client Sample ID: FS09

Lab Sample ID: 890-2368-12

Date Collected: 06/01/22 09:25

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 05:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 18:00	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 10:56	CH	XEN MID

Client Sample ID: FS10

Lab Sample ID: 890-2368-13

Date Collected: 06/01/22 09:30

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 05:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 18:21	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 11:05	CH	XEN MID

Client Sample ID: FS22

Lab Sample ID: 890-2368-14

Date Collected: 06/01/22 09:35

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 05:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS22

Lab Sample ID: 890-2368-14

Date Collected: 06/01/22 09:35

Matrix: Solid

Date Received: 06/02/22 11:30

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			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 18:43	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 11:33	CH	XEN MID

Client Sample ID: FS23

Lab Sample ID: 890-2368-15

Date Collected: 06/01/22 09:40

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 06:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 19:04	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 11:42	CH	XEN MID

Client Sample ID: FS24

Lab Sample ID: 890-2368-16

Date Collected: 06/01/22 09:45

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 06:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 19:25	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 11:51	CH	XEN MID

Client Sample ID: FS25

Lab Sample ID: 890-2368-17

Date Collected: 06/01/22 09:50

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 06:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 19:47	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS25

Lab Sample ID: 890-2368-17

Date Collected: 06/01/22 09:50

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 12:01	CH	XEN MID

Client Sample ID: FS26

Lab Sample ID: 890-2368-18

Date Collected: 06/01/22 09:55

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 07:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 20:08	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 12:10	CH	XEN MID

Client Sample ID: FS27

Lab Sample ID: 890-2368-19

Date Collected: 06/01/22 10:00

Matrix: Solid

Date Received: 06/02/22 11:30

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	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 07:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 20:30	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 12:19	CH	XEN MID

Client Sample ID: FS28

Lab Sample ID: 890-2368-20

Date Collected: 06/01/22 10:05

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	26836	06/03/22 14:58	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26966	06/08/22 07:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	26774	06/03/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26780	06/03/22 20:51	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26806	06/03/22 10:27	CH	XEN MID
Soluble	Analysis	300.0		1			26860	06/05/22 12:28	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS29

Lab Sample ID: 890-2368-21

Date Collected: 06/01/22 10:10

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 09:47	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 12:06	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 13:42	CH	XEN MID

Client Sample ID: FS30

Lab Sample ID: 890-2368-22

Date Collected: 06/01/22 10:15

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 10:07	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 13:59	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 14:10	CH	XEN MID

Client Sample ID: FS31

Lab Sample ID: 890-2368-23

Date Collected: 06/01/22 10:20

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 10:28	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 14:21	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 14:19	CH	XEN MID

Client Sample ID: FS32

Lab Sample ID: 890-2368-24

Date Collected: 06/01/22 10:25

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 10:48	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS32

Lab Sample ID: 890-2368-24

Date Collected: 06/01/22 10:25

Matrix: Solid

Date Received: 06/02/22 11:30

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			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 14:42	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 14:28	CH	XEN MID

Client Sample ID: FS33

Lab Sample ID: 890-2368-25

Date Collected: 06/01/22 10:30

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 11:09	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 15:04	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 14:37	CH	XEN MID

Client Sample ID: FS34

Lab Sample ID: 890-2368-26

Date Collected: 06/01/22 10:35

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 11:29	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 15:25	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 15:05	CH	XEN MID

Client Sample ID: FS35

Lab Sample ID: 890-2368-27

Date Collected: 06/01/22 10:40

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 11:50	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 15:47	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS35

Lab Sample ID: 890-2368-27

Date Collected: 06/01/22 10:40

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 15:14	CH	XEN MID

Client Sample ID: FS36

Lab Sample ID: 890-2368-28

Date Collected: 06/01/22 10:45

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 12:10	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 16:09	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 15:24	CH	XEN MID

Client Sample ID: FS37

Lab Sample ID: 890-2368-29

Date Collected: 06/01/22 10:50

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 12:31	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 16:30	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 15:33	CH	XEN MID

Client Sample ID: FS38

Lab Sample ID: 890-2368-30

Date Collected: 06/01/22 10:55

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 12:51	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 16:52	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 15:42	CH	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS39

Lab Sample ID: 890-2368-31

Date Collected: 06/01/22 11:00

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 14:14	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 17:38	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 15:51	CH	XEN MID

Client Sample ID: FS40

Lab Sample ID: 890-2368-32

Date Collected: 06/01/22 11:05

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 14:34	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 18:00	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 16:19	CH	XEN MID

Client Sample ID: FS41

Lab Sample ID: 890-2368-33

Date Collected: 06/01/22 11:10

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 14:55	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 18:21	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 16:28	CH	XEN MID

Client Sample ID: FS42

Lab Sample ID: 890-2368-34

Date Collected: 06/01/22 11:15

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 15:15	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS42

Lab Sample ID: 890-2368-34

Date Collected: 06/01/22 11:15

Matrix: Solid

Date Received: 06/02/22 11:30

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			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 18:43	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 16:56	CH	XEN MID

Client Sample ID: FS43

Lab Sample ID: 890-2368-35

Date Collected: 06/01/22 11:20

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 15:36	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 19:04	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 17:05	CH	XEN MID

Client Sample ID: FS44

Lab Sample ID: 890-2368-36

Date Collected: 06/01/22 11:25

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 15:56	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 19:25	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 17:14	CH	XEN MID

Client Sample ID: FS45

Lab Sample ID: 890-2368-37

Date Collected: 06/01/22 11:30

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 16:17	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 19:47	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS45

Lab Sample ID: 890-2368-37

Date Collected: 06/01/22 11:30

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 17:23	CH	XEN MID

Client Sample ID: FS46

Lab Sample ID: 890-2368-38

Date Collected: 06/01/22 11:35

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 16:37	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 20:08	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 17:32	CH	XEN MID

Client Sample ID: FS47

Lab Sample ID: 890-2368-39

Date Collected: 06/01/22 11:40

Matrix: Solid

Date Received: 06/02/22 11:30

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	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 16:58	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 20:30	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 17:42	CH	XEN MID

Client Sample ID: FS48

Lab Sample ID: 890-2368-40

Date Collected: 06/01/22 11:45

Matrix: Solid

Date Received: 06/02/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	26837	06/03/22 15:03	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 17:18	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26775	06/03/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26782	06/03/22 20:51	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26812	06/03/22 10:44	CH	XEN MID
Soluble	Analysis	300.0		1			26861	06/05/22 17:51	CH	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS49

Lab Sample ID: 890-2368-41

Date Collected: 06/01/22 11:50

Matrix: Solid

Date Received: 06/02/22 11:30

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	26838	06/03/22 15:09	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 20:22	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26772	06/03/22 08:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26776	06/03/22 15:05	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26916	06/06/22 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			27058	06/08/22 02:49	CH	XEN MID

Client Sample ID: FS50

Lab Sample ID: 890-2368-42

Date Collected: 06/01/22 11:55

Matrix: Solid

Date Received: 06/02/22 11:30

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	26838	06/03/22 15:09	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 20:43	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26772	06/03/22 08:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26776	06/03/22 15:27	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26916	06/06/22 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			27058	06/08/22 02:58	CH	XEN MID

Client Sample ID: FS51

Lab Sample ID: 890-2368-43

Date Collected: 06/01/22 12:00

Matrix: Solid

Date Received: 06/02/22 11:30

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	26838	06/03/22 15:09	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 21:03	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26772	06/03/22 08:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26776	06/03/22 15:50	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26916	06/06/22 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			27058	06/08/22 03:07	CH	XEN MID

Client Sample ID: FS52

Lab Sample ID: 890-2368-44

Date Collected: 06/01/22 12:05

Matrix: Solid

Date Received: 06/02/22 11:30

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	26838	06/03/22 15:09	EL	XEN MID
Total/NA	Analysis	8021B		1			26862	06/05/22 21:24	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			26926	06/06/22 13:03	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

Client Sample ID: FS52 Lab Sample ID: 890-2368-44
Date Collected: 06/01/22 12:05 Matrix: Solid
Date Received: 06/02/22 11:30

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			26881	06/06/22 09:13	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26772	06/03/22 08:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26776	06/03/22 16:11	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26916	06/06/22 11:48	SC	XEN MID
Soluble	Analysis	300.0		1			27058	06/08/22 03:35	CH	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: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

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

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

Method Summary

Client: Ensolum
Project/Site: North Brushy Draw Federal 35 #012H

Job ID: 890-2368-1
SDG: 03a1987015

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

Job ID: 890-2368-1

Project/Site: North Brushy Draw Federal 35 #012H

SDG: 03a1987015

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2368-1	SW09	Solid	06/01/22 08:30	06/02/22 11:30	0 - 4
890-2368-2	SW10	Solid	06/01/22 08:35	06/02/22 11:30	0 - 4
890-2368-3	SW11	Solid	06/01/22 08:40	06/02/22 11:30	0 - 4
890-2368-4	SW12	Solid	06/01/22 08:45	06/02/22 11:30	0 - 4
890-2368-5	SW13	Solid	06/01/22 08:50	06/02/22 11:30	0 - 4
890-2368-6	SW14	Solid	06/01/22 08:55	06/02/22 11:30	0 - 4
890-2368-7	SW15	Solid	06/01/22 09:00	06/02/22 11:30	0 - 2
890-2368-8	SW16	Solid	06/01/22 09:05	06/02/22 11:30	0 - 2
890-2368-9	SW17	Solid	06/01/22 09:10	06/02/22 11:30	0 - 2
890-2368-10	SW18	Solid	06/01/22 09:15	06/02/22 11:30	0 - 2
890-2368-11	SW19	Solid	06/01/22 09:20	06/02/22 11:30	0 - 2
890-2368-12	FS09	Solid	06/01/22 09:25	06/02/22 11:30	1
890-2368-13	FS10	Solid	06/01/22 09:30	06/02/22 11:30	1
890-2368-14	FS22	Solid	06/01/22 09:35	06/02/22 11:30	4
890-2368-15	FS23	Solid	06/01/22 09:40	06/02/22 11:30	4
890-2368-16	FS24	Solid	06/01/22 09:45	06/02/22 11:30	4
890-2368-17	FS25	Solid	06/01/22 09:50	06/02/22 11:30	4
890-2368-18	FS26	Solid	06/01/22 09:55	06/02/22 11:30	4
890-2368-19	FS27	Solid	06/01/22 10:00	06/02/22 11:30	4
890-2368-20	FS28	Solid	06/01/22 10:05	06/02/22 11:30	4
890-2368-21	FS29	Solid	06/01/22 10:10	06/02/22 11:30	4
890-2368-22	FS30	Solid	06/01/22 10:15	06/02/22 11:30	4
890-2368-23	FS31	Solid	06/01/22 10:20	06/02/22 11:30	4
890-2368-24	FS32	Solid	06/01/22 10:25	06/02/22 11:30	4
890-2368-25	FS33	Solid	06/01/22 10:30	06/02/22 11:30	4
890-2368-26	FS34	Solid	06/01/22 10:35	06/02/22 11:30	4
890-2368-27	FS35	Solid	06/01/22 10:40	06/02/22 11:30	2
890-2368-28	FS36	Solid	06/01/22 10:45	06/02/22 11:30	2
890-2368-29	FS37	Solid	06/01/22 10:50	06/02/22 11:30	2
890-2368-30	FS38	Solid	06/01/22 10:55	06/02/22 11:30	2
890-2368-31	FS39	Solid	06/01/22 11:00	06/02/22 11:30	2
890-2368-32	FS40	Solid	06/01/22 11:05	06/02/22 11:30	2
890-2368-33	FS41	Solid	06/01/22 11:10	06/02/22 11:30	2
890-2368-34	FS42	Solid	06/01/22 11:15	06/02/22 11:30	2
890-2368-35	FS43	Solid	06/01/22 11:20	06/02/22 11:30	2
890-2368-36	FS44	Solid	06/01/22 11:25	06/02/22 11:30	2
890-2368-37	FS45	Solid	06/01/22 11:30	06/02/22 11:30	2
890-2368-38	FS46	Solid	06/01/22 11:35	06/02/22 11:30	2
890-2368-39	FS47	Solid	06/01/22 11:40	06/02/22 11:30	2
890-2368-40	FS48	Solid	06/01/22 11:45	06/02/22 11:30	2
890-2368-41	FS49	Solid	06/01/22 11:50	06/02/22 11:30	2
890-2368-42	FS50	Solid	06/01/22 11:55	06/02/22 11:30	2
890-2368-43	FS51	Solid	06/01/22 12:00	06/02/22 11:30	2
890-2368-44	FS52	Solid	06/01/22 12:05	06/02/22 11:30	2



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) 985-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 5

Project Manager:	Ben Beill	Bill to: (if different)	Jim Raley
Company Name:	Ensolum	Company Name:	WPX
Address:	3122 National Parks HWY	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	BBeill@Ensolum.com, jim.raley@vvn.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:

ANALYSIS REQUEST	
Preservative Codes	
None: NO	DI Water: H ₂ O
Cool: Cool	MeOH: Me
HCL: HC	HNO ₃ : HN
H ₂ SO ₄ : H ₂	NaOH: Na
H ₃ PO ₄ : HP	
NaHSO ₄ : NABIS	
Na ₂ S ₂ O ₃ : NaSO ₃	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Sample Comments
SW09	S	6.1.22	8.30	0-4'	Comp	1	CHLORIDES (EPA: 300.0)	
SW10	S	6.1.22	8.35	0-4'	Comp	1	TPH (8015)	
SW11	S	6.1.22	8.40	0-4'	Comp	1	BTEX (8021)	
SW12	S	6.1.22	8.45	0-4'	Comp	1		
SW13	S	6.1.22	8.50	0-4'	Comp	1		
SW14	S	6.1.22	8.55	0-4'	Comp	1		
SW15	S	6.1.22	9.00	0-2'	Comp	1		
SW16	S	6.1.22	9.05	0-2'	Comp	1		
SW17	S	6.1.22	9.10	0-2'	Comp	1		
SW18	S	6.1.22	9.15	0-2'	Comp	1		

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	Ti	Sn	U	V	Zn				
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA		Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U														

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
<i>[Signature]</i>	<i>[Signature]</i>	6.2.22 1130			



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

Chain of Custody

Work Order No:

www.xenco.com Page 2 of 5

Project Manager:	Ben Beill	Bill to: (if different)	Jim Raley
Company Name:	Ensolum	Company Name:	WPX
Address:	3122 National Parks HWY	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	BBellill@Ensolum.com, jim.raley@dyn.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:

[illegible][illegible]

Total	200.7 / 6010	200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010.	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ , Na Sr Ti Sn U V Zn Texas 11 Sb As Ba Be Cd Cr Co Cu Fe Pb Mn Mo Ni Se Ag Ti 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 		6.2.22 1130			
3		4			
5		6			

Revised Date 08/25/2020 Rev 2020



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) 985-3199

Work Order No: _____

www.xenco.com Page 3 of 5

Project Manager:	Ben Bellill	Bill to: (if different)	Jim Raley
Company Name:	Ensolum	Company Name:	WPX
Address:	3122 National Parks HWY	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	BBellill@Ensolum.com, jim.raley@dvn.com

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:	North Brushy Draw Federal 35 #012H	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03A1987015	Due Date:	5 Day TAT		
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Gilbert Moreno				
CC #:	1061183501	Temp Blank:	Yes No	Wet Ice:	Yes No
SAMPLE RECEIPT		Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No	Sample Custody Seals:	Yes No	Corrected Temperature:	
Total Containers:					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes
FS29	S	6.1.22	10:10	4'	Comp	1	CHLORIDES (EPA: 300.0)		None: NO DI Water: H ₂ O
FS30	S	6.1.22	10:15	4'	Comp	1	TPH (8015)		Cool: Cool MeOH: Me
FS31	S	6.1.22	10:20	4'	Comp	1	BTEX (8021)		HCL: HC HNO ₃ : HN
FS32	S	6.1.22	10:25	4'	Comp	1			H ₂ SO ₄ : H ₂ NaOH: Na
FS33	S	6.1.22	10:30	4'	Comp	1			H ₃ PO ₄ : HP
FS34	S	6.1.22	10:35	2'	Comp	1			NaHSO ₄ : NABIS
FS35	S	6.1.22	10:40	2'	Comp	1			Na ₂ S ₂ O ₃ : NaSO ₃
FS36	S	6.1.22	10:45	2'	Comp	1			Zn Acetate+NaOH: Zn
FS37	S	6.1.22	10:50	2'	Comp	1			NaOH+Ascorbic Acid: SAPC
FS38	S	6.1.22	10:55	2'	Comp	1			

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 Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010:	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	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
<i>Ben Bellill</i>	<i>See Log</i>	6.2.22 11:30			



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) 986-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 4 of 5

Project Manager:	Ben Belli	Bill to: (if different)	Jim Raley
Company Name:	Ensolum	Company Name:	WPX
Address:	3122 National Parks HWY	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	BBelli@Ensolum.com, jim.raley@dnv.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:		North Brushy Draw Federal 35 #012H		Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes	
Project Number:	03A1987015		☒ Routine	☐ Rush													None: NO	DI Water: H ₂ O
Project Location:	Eddy County, NM		Due Date:	5 Day TAT												Cool: Cool	MeOH: Me	
Sampler's Name:	Gilbert Moreno		TAT starts the day received by the lab, if received by 4:30pm													HCL: HC	HNO ₃ : HN	
CC #:	1061183501															H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT			Temp Blank:	Yes	No	Wet Ice:	Yes	No									H ₃ PO ₄ : HP	
Samples Received Intact:			Yes	No	Thermometer ID:									NaHSO ₄ : NABIS				
Cooler Custody Seals:			Yes	No	Correction Factor:									Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seals:			Yes	No	N/A	Temperature Reading:									Zn Acetate+NaOH: Zn			
Total Containers:					Corrected Temperature:									NaOH+Ascorbic Acid: SAPC				
Parameters						RIDES (EPA: 300.0)												
						015)												
						8021												

[illegible]

Total	200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	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 Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 service. Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated. Eurofins Xeno.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	6.2.22	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020



Environment Testing
Xenon

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) 986-3199

Chain of Custody

Work Order No:

www.xenco.com Page 5 of 5

Project Manager:	Ben Bellill	Bill to: (if different)	Jim Raley
Company Name:	Ensolium	Company Name:	WPX
Address:	3122 National Parks HWY	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	JBellill@Ensolium.com, jim.raley@dyn.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:		North Brushy Draw Federal 35 #012H		Turn Around				ANALYSIS REQUEST												Preservative Codes	
Project Number:		03A1987015		☒ Routine ☐ Rush														None: NO		DI Water: H ₂ O	
Project Location:		Eddy County, NM		Due Date:		5 Day TAT												Cool: Cool		MeOH: Me	
Sampler's Name:		Gilbert Moreno		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC		HNO ₃ : HN	
CC #:		1061183501																H ₂ SO ₄ : H ₂		NaOH: Na	
SAMPLE RECEIPT				Temp Blank:		Yes No		Wet Ice:		Yes No								H ₃ PO ₄ : HP			
Samples Received Intact:		Yes No		Thermometer ID:														NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes No		Correction Factor:														Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:		Yes No		N/A		Temperature Reading:												Zn Acetate+NaOH: Zn			
Total Containers:				Corrected Temperature:														NaOH+Ascorbic Acid: SACP			
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont								Sample Comments	
FS49		S		6.1.22		11:50		2'		Comp		1		X		X		X			
FS50		S		6.1.22		11:55		2'		Comp		1		X		X		X			
FS51		S		6.1.22		12:00		2'		Comp		1		X		X		X			
FS52		S		6.1.22		12:05		2'		Comp		1		X		X		X			

Total	200.7 / 6010	200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010: 8RCRA	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

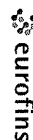
Notice: Signature of this document of relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume 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 <i>Calderone</i>	<i>Mike May</i>	6.2.22	2		
3			4		
5			6		

Eurofins Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



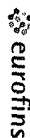
**Environment Testing
America**

Client Information (Sub Contract Lab)				Sampler		Lab PM		COC No																					
Client Contact: Shipping/Receiving				Phone:		Kramer Jessica		890-776 1																					
Company: Eurofins Environment Testing South Cent				E-Mail		jessica.kramer@eurofins.com		Page 1 of 5																					
Address: 1211 W Florida Ave				Due Date Requested		Accreditations Required (See note): NELAP - Texas		Job #: 890-2368-1																					
City: Midland				6/8/2022		State of Origin		New Mexico																					
State, Zip				TAT Requested (days):		Analysis Requested		Preservation Codes																					
TX 79701								A HCL B NaOH C - Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O AsH2O2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecylhydrate U Acetone V MCAA W pH 4.5 Y Trizma Z other (specify)																					
Phone: 432-704-5440(Tel)				PO #																									
Email:				WO #																									
Project Name: North Brushy Draw Federal 35 #012h				Project #:																									
Site:				SSOW#:																									
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=metal, BT=Blank, A=AI)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8015MOD_Calc		8015MOD_NM/8015NM_S_Prep Full TPH		300_ORGFM_28D/DI_LEACH Chloride		8021B/5035FFP_Calc BTEX		Total_BTEX_GCV		Total Number of containers		Special Instructions/Note	
SW09 (890-2368-1)				6/1/22		08 30		Mountain		Solid						X		X		X		X		X		1			
SW10 (890-2368-2)				6/1/22		08 35		Mountain		Solid						X		X		X		X		X		1			
SW11 (890-2368-3)				6/1/22		08 40		Mountain		Solid						X		X		X		X		X		1			
SW12 (890-2368-4)				6/1/22		08 45		Mountain		Solid						X		X		X		X		X		1			
SW13 (890-2368-5)				6/1/22		08 50		Mountain		Solid						X		X		X		X		X		1			
SW14 (890-2368-6)				6/1/22		08 55		Mountain		Solid						X		X		X		X		X		1			
SW15 (890-2368-7)				6/1/22		09 00		Mountain		Solid						X		X		X		X		X		1			
SW16 (890-2368-8)				6/1/22		09 05		Mountain		Solid						X		X		X		X		X		1			
SW17 (890-2368-9)				6/1/22		09 10		Mountain		Solid						X		X		X		X		X		1			
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyze & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/assessments being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.																													
Possible Hazard Identification																													
Unconfirmed																													
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2																													
Empty Kit Relinquished by Date/Time Company Time Method of Shipment: Date/Time Company																													
Relinquished by Date/Time Company Time Method of Shipment: Date/Time Company																													
Relinquished by Date/Time Company Time Method of Shipment: Date/Time Company																													
Custody Seals Intact: Custody Seal No Cooler Temperature(s) °C and Other Remarks.																													
A Yes A No																													

Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



Environment Testing America

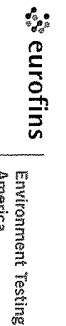
Client Information (Sub Contract Lab)						Sampler	Lab PM	Center Tracking No(s)	COC No.						
Client Contact						Kramer Jessica	E-Mail	State of Origin	Page 2 of 5						
Shipping/Receiving						Jessica Kramer@et.eurofins.com	New Mexico		890-1776 2						
Company						Accreditations Required (See note)			Job #						
Eurofins Environment Testing South Center						NELAP - Texas			890-2368-1						
Address:															
City						Due Date Requested									
Midland						TAT Requested (days):									
State Zip															
TX, 79701															
Phone						PO #									
432-704-5440(Tel)						WO #									
Email															
Project Name						Project #									
North Brushy Draw Federal 35 #012h						89000084									
Site						SSOW#									
Sample Identification - Client ID (Lab ID)						Sample Date	Sample Time	Sample Type (G=grab) Preservation Code	Matrix (W=water S=solid, O=ore/mineral, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note	
SW/8 (890-2368-10)						6/1/22	09 15	Mountain	Solid	X	X	X	X	X	
SW/9 (890-2368-11)						6/1/22	09 20	Mountain	Solid	X	X	X	X	X	
FS09 (890-2368-12)						6/1/22	09 25	Mountain	Solid	X	X	X	X	X	
FS10 (890-2368-13)						6/1/22	09 30	Mountain	Solid	X	X	X	X	X	
FS22 (890-2368-14)						6/1/22	09 35	Mountain	Solid	X	X	X	X	X	
FS23 (890-2368-15)						6/1/22	09 40	Mountain	Solid	X	X	X	X	X	
FS24 (890-2368-16)						6/1/22	09 45	Mountain	Solid	X	X	X	X	X	
FS25 (890-2368-17)						6/1/22	09 50	Mountain	Solid	X	X	X	X	X	
FS26 (890-2368-18)						6/1/22	09 55	Mountain	Solid	X	X	X	X	X	
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.															
Possible Hazard Identification															
Unconfirmed															
Deliverable Requested I II III IV Other (Specify) Primary Deliverable Rank 2															
Empty Kit Relinquished by															
Relinquished by															
Relinquished by															
Custody Seals Intact. Custody Seal No															
A Yes A NO															

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Eurofins Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact	Phone	Kramer, Jessica			890-776 3
Shipping/Receiving	E-Mail	Jessica.Kramer@eurofins.com		State of Origin	Page 3 of 5
Company	Accreditations Required (See note)	NE LAP - Texas		New Mexico	
Eurofins Environment Testing South Cent	Due Date Requested	6/8/2022	Analysis Requested	Job #	890-2368-1
Address	1211 W Florida Ave				
City	Midland	TAT Requested (days)			
State Zip	TX 79701				
Phone	432-704-5440(Tel)	PO #			
Email		WO #			
Project Name	North Brushy Draw Federal 35 #012h	Project #			
Site		SSOW#			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other)
FS27 (890-2368-19)		6/1/22	10 00		Solid
FS28 (890-2368-20)		6/1/22	10 05		Solid
FS29 (890-2368-21)		6/1/22	10 10		Solid
FS30 (890-2368-22)		6/1/22	10 15		Solid
FS31 (890-2368-23)		6/1/22	10 20		Solid
FS32 (890-2368-24)		6/1/22	10 25		Solid
FS33 (890-2368-26)		6/1/22	10 30		Solid
FS34 (890-2368-26)		6/1/22	10 35		Solid
FS35 (890-2368-27)		6/1/22	10 40		Solid
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank 2		Special Instructions/QC Requirements	
Empty Kit Relinquished by		Date	Time	Method of Shipment	
Relinquished by		Date/Time	Company	Received by	
Relinquished by		Date/Time	Company	Received by	
Relinquished by		Date/Time	Company	Received by	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks	

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Eurofine Carlebad

1089 N. Campbell St.

Carlsbad NM 88220

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing

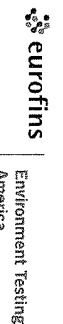
Client Information (Sub Contract Lab)			Sampler	Lab PM	Carrier Tracking No(s)		COC No.								
Client Contact: Shipping/Receiving			Phone:	Kramer Jessica	State of Origin		890-776 4								
Company: Eurofins Environment Testing South Central			E-Mail: Jessica.Kramer@et.eurofins.com	Accreditations Required (See note)		Page 4 of 5	Page 4 of 5								
Address: 1211 W Florida Ave			Due Date Requested: 6/8/2022	Accreditations Required (See note)		Job #	890-2368-1								
City: Midland			TAI Requested (days)	Analysis Requested											
State Zip: TX 79701			PO #												
Phone: 432-704-5440(Tel)			WO #												
Email:			Project #												
Project Name: North Brushy Draw Federal 35 #012h			SSOW#												
Site:															
Sample Identification - Client ID (Lab ID)			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=Water, S=Solid, O=Organic, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFMM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
FS36 (890-2368-28)			6/1/22	10 45	Mountain	Solid		X	X	X	X	X	X	1	
FS37 (890-2368-29)			6/1/22	10 50	Mountain	Solid		X	X	X	X	X	X	1	
FS38 (890-2368-30)			6/1/22	10 55	Mountain	Solid		X	X	X	X	X	X	1	
FS39 (890-2368-31)			6/1/22	11 00	Mountain	Solid		X	X	X	X	X	X	1	
FS40 (890-2368-32)			6/1/22	11 05	Mountain	Solid		X	X	X	X	X	X	1	
FS41 (890-2368-33)			6/1/22	11 10	Mountain	Solid		X	X	X	X	X	X	1	
FS42 (890-2368-34)			6/1/22	11 15	Mountain	Solid		X	X	X	X	X	X	1	
FS43 (890-2368-35)			6/1/22	11 20	Mountain	Solid		X	X	X	X	X	X	1	
FS44 (890-2368-36)			6/1/22	11 25	Mountain	Solid		X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.															
Possible Hazard Identification															
Unconfirmed															
Deliverable Requested: I II III IV Other (specify)															
Primary Deliverable Rank: 2															
Special Instructions/QC Requirements															
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															
Return To Client															
Disposal By Lab															
Archive For															
Months															
Empty Kit Relinquished by															
Date/Time															
Company															
Relinquished by															
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Company															
Relinquished by															
Date/Time															
Company															
Custody Seals Intact: Custody Seal No															
Cooler Temperature(s) °C and Other Remarks:															

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Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact:	Phone:	Kramer, Jessica			890-776 5
Shipping/Receiving	E-Mail:	Jessica.Kramer@eurofins.com	State of Origin	Page	Page 5 of 5
Company:	Accreditations Required (See note)	NELAP - Texas	New Mexico	Job #	890-2368-1
Eurofins Environment Testing South Cent	Due Date Requested	6/8/2022	Preservation Codes		
Address:	City:	Midland	A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amchlor H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA M. Hexane N. None O. AsH2O2 P. Na2CO3 Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecylhydrate U. Acetone V. MCAA W. pH 4.5 Y. Trizma Z. other (specify)		
1211 W Florida Ave	TAAT Requested (days)	6/8/2022	Analysis Requested		
State, Zip:	PO #:	WO #:	8015MOD_Calc 8015MOD_NM/8015NM_S_Prep Full TPH 300_ORGFM_28D/DI_LEACH Chloride 8021B/6036FP_Calc BTEX Total_BTEX_GCV		
TX 79701	Project #	89000084	Total Number of containers		
Phone	SSOW#		Special Instructions/Note		
432-704-5440(Tel)					
Email					
Project Name					
North Brushy Draw Federal 35 #012h					
Site					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other, A=Al)
FS45 (890-2368-37)	6/1/22	11 30	Mountain	Solid	X
FS46 (890-2368-38)	6/1/22	11 35	Mountain	Solid	X
FS47 (890-2368-39)	6/1/22	11 40	Mountain	Solid	X
FS48 (890-2368-40)	6/1/22	11 45	Mountain	Solid	X
FS49 (890-2368-41)	6/1/22	11 50	Mountain	Solid	X
FS50 (890-2368-42)	6/1/22	11 55	Mountain	Solid	X
FS51 (890-2368-43)	6/1/22	12 00	Mountain	Solid	X
FS52 (890-2368-44)	6/1/22	12 05	Mountain	Solid	X
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Cent, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Cent, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Cent, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Cent, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (specify)					
Primary Deliverable Rank 2					
Special Instructions/QC Requirements					
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Empty Kit Relinquished by					
Relinquished by					
Relinquished by					
Relinquished by					
Custody Seals Intact: ☐ Yes ☐ No					
Custody Seal No					
Cooler Temperature(s) °C and Other Remarks					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2368-1

SDG Number: 03a1987015

Login Number: 2368

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: 890-2368-1

SDG Number: 03a1987015

Login Number: 2368

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 06/03/22 11:41 AM

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



APPENDIX G

Correspondence Emails

From: [Anna Byers](#)
To: ocd.enviro@state.nm.us
Cc: jim.raley@dmr.com; [Joseph Hernandez](#); [Ben Belill](#)
Subject: WPX Site Activity Update for Week of May 2, 2022
Date: Thursday, April 28, 2022 10:09:22 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Good morning,

WPX anticipates conducting final confirmation soil sampling activities at the following sites between May 2-6, 2022:

Ensolum

Site: North Brushy Draw Federal 35 #002H
API: [30-015-40006](#)
Incident Number: NRM2014147987

Site: North Brushy Draw Federal 35 #009H
API: [30-015-42220](#)
Incident Number: NRM2020657799

Site: North Brushy Draw Federal 35#012H
API: [30-015-43603](#)
Incident Number: nAPP2208844411

Site: East Pecos Federal 22 #003H
API: [30-015-42285](#)
Incident Number: nAPP2123361366

Thank you,



Anna Byers
Project Geologist
575-200-6754
Ensolum, LLC
in f 

From: [Anna Byers](#)
To: [Enviro, OCD, EMNRD](#)
Cc: [Joseph Hernandez](#); [Ben Belill](#); jim.raley@dvn.com
Subject: WPX Site Activity Update for Week of May 23, 2022
Date: Monday, May 23, 2022 3:13:45 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Good afternoon,

WPX anticipates conducting final confirmation soil sampling activities at the following site between May 25 through May 27, 2022:

Site: North Brushy Draw Federal 35 #012H

API: 30-015-43603

Incident Number: nAPP2208844411

Thank you,



Anna Byers
Project Geologist
575-200-6754
Ensolum, LLC
in f 

From: [Anna Byers](#)
To: [Enviro, OCD, EMNRD](#)
Cc: jim.raley@dvn.com; [Devon-Team](#)
Subject: WPX Site Activity Update for Week of May 30, 2022
Date: Thursday, May 26, 2022 10:42:04 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Good afternoon,

WPX anticipates conducting final confirmation soil sampling activities at the following site between May 30 through June 3, 2022:

Site: North Brushy Draw Federal 35 #012H

API: 30-015-43603

Incident Number: nAPP2208844411

Thank you,



Anna Byers
Project Geologist
575-200-6754
Ensolum, LLC
in f 

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 117791

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 117791
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2208844411 NORTH BRUSHY DRAW FEDERAL 35 #012H, thank you. This closure is approved.	10/21/2022