District I 1625 N. French Dr., Hobbs, NM 88240 District III 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

)

Page 1 lof 87

Incident ID	NAPP2209039217
District RP	
Facility ID	
Application ID	

## **Release Notification**

#### **Responsible Party**

Responsible Party XTO Energy	OGRID 5380
Contact Name Adrian Baker	Contact Telephone 432-236-3808
Contact email adrian.baker@exxonmobil.com	Incident # (assigned by OCD)
Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707	

#### **Location of Release Source**

Latitude 32.14650

(NAD 83 in decimal degrees to 5 decimal places)

-103.91240

Site Name ROW 4 Muy Wayno Pipeline	Site Type Riser
Date Release Discovered 03/19/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
Н	07	258	30E	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)	Volume Recovered (bbls)		
▼ Produced Water	Volume Released (bbls) 284.67	Volume Recovered (bbls) 260.00		
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No		
Condensate	Volume Released (bbls)	Volume Recovered (bbls)		
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)		
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)		
Cause of Release Corrosion caused a release of fluids on the pipeline from Muy Wayno pit to the PLU 18 Brushy Draw. Vacuum truck was dispatched and recovered all free fluids. A third-party contractor has been retained for remediation purposes.				

Page 2

NA

#### Oil Conservation Division

Incident ID	NAPP2209039217
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?	
release as defined by 19.15.29.7(A) NMAC?	A release equal to or greater than 25 barrels.	
🗶 Yes 🗌 No		
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	
Yes, by Garrett Green to Mike Bratcher; Victoria Venegas; Rob Hamlet; ocd.enviro@state.nm.us on Saturday, March 19, 2022 12:44 PM via email.		

#### **Initial Response**

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

 $\checkmark$  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: Adrian Baker	Title:
Signature:	Date:
email:	Telephone:
OCD Only	

Location:	ROW 4 Muy Wayno Riser		
Spill Date:	3/19/2022		
	Area 1		
Approximate Ar	ea =	10000.00	sq. ft.
Average Saturat	ion (or depth) of spill =	1.00	inches
Average Porosit	y Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	264.45	bbls
	Area 2		
Approximate Ar	ea =	1650.00	sq. ft.
Average Saturat	ion (or depth) of spill =	4.00	inches
Average Porosit	y Factor =	0.15	
	VOLUME OF LEAK		
Total Crude Oil	=		bbls
Total Produced		14.69	bbls
	Area 3		
Approximate Ar		621.00	
Average Saturat	ion (or depth) of spill =	4.00	inches
Average Porosit	y Factor =	0.15	
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	5.53	bbls
	TOTAL VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
<b>Total Produced</b>	Water =	284.67	bbls
	TOTAL VOLUME RECOVERED		
Total Crude Oil	=	0.00	bbls
<b>Total Produced</b>	Water =	260.00	bbls

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator: C	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road 🛛	Action Number:
Midland, TX 79707	94783
A	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

#### CONDITIONS

Created By		Condition Date
jharimon	None	3/31/2022

Page 440f 87

Action 94783

Received by OCD: 6/17/2022 1:33:15 PM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 5 of	87
Incident ID	NAPP2209039217	
District RP		
Facility ID		
Application ID		

### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100</u> (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 <b>not</b> 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
- $\boxtimes$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- $\boxtimes$  Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 6/17/2	2022 1:33:15 PM State of New Mexico			Page 6 of 82
Form C-141			Incident ID	NAPP2209039217
Page 4	Oil Conservation Division	l	District RP	
			Facility ID	
			Application ID	
regulations all operators a public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name:Ad Signature:Qure	formation given above is true and complete to the re required to report and/or file certain release no onment. The acceptance of a C-141 report by the tigate and remediate contamination that pose a the of a C-141 report does not relieve the operator of rian Baker	bifications and perform control of the occupation of the occupatio	orrective actions for rele e operator of liability sh- ice water, human health liance with any other fea nmental Coordinator_	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:		Date:		

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Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

	1 480 / 01
Incident ID	NAPP2209039217
District RP	
Facility ID	
Application ID	

Page 7 of 87

### **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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: \_\_\_\_\_Adrian Baker\_\_\_\_\_\_ Title: \_\_Environmental Coordinator\_\_\_\_\_\_ Signature: \_\_\_\_\_ Qdvion Baks\_\_\_\_\_ Date: \_\_\_06/17/2022\_\_\_\_\_ email: \_\_adrian.baker@exxonmobil.com\_\_\_\_\_ Telephone: \_\_\_432-236-3808\_\_\_\_\_ OCD Only \_\_\_\_\_ Date: \_\_\_\_ Received by: Approved with Attached Conditions of Approval Denied Deferral Approved Approved ennifer Nobui Date: 08/25/2022 Signature:



June 16, 2022

District II New Mexico Oil Conservation Division 811 S. First St. Artesia, New Mexico 88210

#### Re: Remediation Work Plan ROW 4 Muy Wayno Pipeline Incident Number NAPP2209039217 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared the following Remediation Work Plan (Work Plan) to document the site assessment activities completed to date and propose a work plan to address the impacted soil identified at the Right-of-Way (ROW) 4 along the Muy Wayno Pipeline (Site), resulting from a release of produced water. The following Work Plan proposes to advance a soil boring to investigate depth to water to confirm the Closure Criteria at the Site and excavate the impacted soil.

#### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit H, Section 7, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.14650° N, 103.91240° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On March 19, 2022, corrosion of a pipeline resulted in the release of approximately 284.67 barrels (bbls) of produced water into the surrounding pipeline ROW. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 260 bbls of released produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on March 19, 2022, and submitted a Release Notification Form C-141 (Form C-141) on March 31, 2022. The release was assigned Incident Number NAPP2209039217.

#### SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320857103553301, located

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 North Marienfeld Street | Midland, TX 79701 | ensolum.com Texas PG Firm No. 50588 | Texas PE Firm No. F-21843 ROW 4 Muy Wayno Pipeline

#### E ENSOLUM

approximately 0.84 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 264 feet bgs and a total depth of 385 feet bgs. Ground surface elevation at the groundwater well location is 3,169 feet above mean sea level (amsl), which is approximately 18 feet lower in elevation than the Site. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 573 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

#### SITE ASSESSMENT AND DELINEATION ACTIVITIES

On April 18, 2022, Ensolum personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Five preliminary assessment soil samples (SS01 through SS05) were collected within the release extent from a depth of approximately 0.5 feet bgs. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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

Laboratory analytical results for preliminary soil samples SS01 through SS05 indicated that chloride concentrations exceeded the Closure Criteria and/or the reclamation standards. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation activities were warranted.

ROW 4 Muy Wayno Pipeline

#### **ENSOLUM**

On June 3, 2022, delineation activities were conducted at the Site to assess the vertical extent of impacted soil. Potholes PH01 through PH04 were advanced via track mounted backhoe within the release extent at the locations of preliminary soil samples SS01, SS03, SS04, and SS05. The potholes were advanced to a depth of 4 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 4 feet bgs. Soil from the potholes was field screened for VOCs and chloride using a PID and chloride Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. Field screening results and observations from the potholes were documented on lithologic/soil sampling logs, which are included as Appendix C. The delineation soil samples were handled and analyzed as described above. The pothole locations are presented on Figure 3.

#### LABORATORY ANALYTICAL RESULTS

Benzene, BTEX, and TPH concentrations were below laboratory detection limits in all delineation soil samples collected at the Site. No hydrocarbon impacted soil was identified as a result of the release.

Laboratory analytical results for the delineation samples collected from pothole PH02 indicated that chloride concentrations were compliant with Site Closure Criteria and reclamation standards. Laboratory analytical results for the delineation samples collected at depths of 1-foot or 2 feet bgs from potholes PH01, PH03, and PH04, indicated that chloride concentrations exceeded the reclamation standard. Subsequent delineation samples from potholes PH01, PH03, and PH04, collected at 4 feet bgs, were compliant with Site Closure Criteria. Based on the laboratory analytical results, the vertical extent of the impacted soil was successfully defined. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

#### PROPOSED REMEDIATION WORK PLAN

The results from the delineation soil sampling suggest soil containing elevated chloride concentrations is present across the 10,000 square foot release area and extends from the ground surface to an approximate depth of 4 feet bgs.

XTO proposes to complete the following remediation activities:

- In order to confirm depth to groundwater is greater than 100 feet bgs at the Site and confirm the applied Closure Criteria, XTO proposes to advance a soil boring until groundwater is encountered or to maximum depth of 110 feet bgs. The soil boring will be located within 0.5 miles of the Site and a field geologist will log and describe soils continuously. The soil boring will be left open for over 72 hours to allow for the potential slow infill of groundwater. Following the 72-hour waiting period, depth to groundwater will be measured or the geologist will confirm the boring is dry. The soil boring will be backfilled following New Mexico Office of the State Engineer (NMOSE) approved procedures. A well record or soil boring log will be included in the subsequent Closure Report.
- Following confirmation of depth to groundwater, XTO will proceed with excavation of the chlorideimpacted soil to below reclamation standards in the top 4 feet and to below the established Site Closure Criteria at depths of 4 feet bgs or greater. Based on the delineation soil sample analytical results and area of the release extent, an estimated 1,400 cubic yards of impacted soil will be excavated and disposed of at a licensed disposal facility. The estimated excavation extent is shown on Figure 4.
- Due to the estimated 10,000 square foot size of the excavation, XTO requests a variance for frequency of excavation confirmation samples. XTO proposes the frequency of confirmation sampling for the excavation floor to be decreased from every 200 square feet (approximately 50 samples) to every 500 square feet (approximately 20 samples). Each 5-point composite floor

sample will represent a 500 square foot area. Sidewall samples will be collected at a frequency of every 200 square feet. The soil samples will be handled as described above and analyzed for chloride at Eurofins in Carlsbad, New Mexico. The soil samples will be analyzed for chloride only since no BTEX or TPH concentrations were detected in any of the samples collected at the Site. The source of the release was produced water and no hydrocarbon constituents were identified in source samples; therefore, chloride is the established contaminant of concern.

 Upon completion of excavation activities, the excavation will be backfilled and recontoured to match pre-existing conditions. The disturbed area will be re-seeded with an approved BLM seed mixture.

XTO will complete the excavation activities within 90 days of the date of approval of this Work Plan by the NMOCD. The depth to water soil boring will be completed as soon as possible following approval from the surface landowner, receipt of the NMOSE drilling permit, and scheduling with a driller.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely, Ensolum, LLC

alui Jennings

Kalei Jennings Senior Scientist

Aimee Cole Senior Managing Scientist

cc: Adrian Baker, XTO New Mexico State Land Office

Appendices:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Figure 4 Proposed Excavation Extent
- Table 1
   Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Lithologic / Soil Sampling Logs
- Appendix D Laboratory Analytical Results
- Appendix E NMOCD Notifications



FIGURES

.

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# TABLES

## **ENSOLUM**

				ROW	TABLE 1         PLE ANALYTIC/         / 4 Muy Wayno P         XTO Energy, Inc         iy County, New M	ipeline				
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	Closure Criteria (	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Prelimina	ry Assessment S	oil Samples			L	L
SS01	04/18/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	28,900*
SS02	04/18/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	9,390*
SS03	04/18/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	9,060*
SS04	04/18/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	13,000*
SS05	04/18/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	11,500*
				Del	ineation Soil San	nples				
PH01	06/03/2022	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	5,340*
PH01A	06/03/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,670
PH02	06/03/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	478*
PH02A	06/03/2022	4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	97.1
PH03	06/03/2022	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	3,020*
PH03A	06/03/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	153
PH04	06/03/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,860*
PH04A	06/03/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	35.3

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

TPH: Total Petroleum Hydrocarbon \* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard for chloride in the top 4 feet is 600 mg/kg

.



# APPENDIX A

**Referenced Well Records** 

USGS Home Contact USGS Search USGS



National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 ✓
 United States
 ✓
 GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

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

#### Search Results -- 1 sites found

Agency code = usgs

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320857103553301 25S.30E.07.112331

Eddy County, New Mexico Latitude 32°08'57", Longitude 103°55'33" NAD27 Land-surface elevation 3,169 feet above NAVD88 The depth of the well is 385 feet below land surface. This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer. **Output formats** 

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

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1959-02-05		D	62610		2903.75	NGVD29	1	Z		
1959-02-05		D	62611		2905.37	NAVD88	1	Z		
1959-02-05		D	72019	263.63			1	Z		
1959-03-07		D	62610		2904.08	NGVD29	1	Z		
1959-03-07		D	62611		2905.70	NAVD88	1	Z		
1959-03-07		D	72019	263.30			1	Z		
1987-10-20		D	62610		2903.13	NGVD29	1	Z		
1987-10-20		D	62611		2904.75	NAVD88	1	Z		
1987-10-20		D	72019	264.25			1	Z		
1992-11-06		D	62610		2904.38	NGVD29	1	S		
1992-11-06		D	62611		2906.00	NAVD88	1	S		
1992-11-06		D	72019	263.00			1	S		
1998-01-28		D	62610		2903.26	NGVD29	1	V		
1998-01-28		D	62611		2904.88	NAVD88	1	V		
1998-01-28		D	72019	264.12			1	V		

#### *Received by OCD: 6/17/2022 1:33:15 PM*

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

Questions about sites/data?
<u>Feedback on this web site</u>
Automated retrievals
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Data Tips
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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-06-15 12:17:12 EDT 0.29 0.24 nadww02 USA.gov



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#### **National Water Information System: Web Interface**

IISGS	Water	Resources
0000	a a a c c c i	Resources

Site	Information	
Dala	category:	

Data Catagoni

Geographic Area: United States

s

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#### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.
- Full News 🔊

# USGS 320857103553301 25S.30E.07.112331

Available data for this site SUMMARY OF ALL AVAILABLE DATA V GO

#### **Well Site**

DESCRIPTION:

Latitude 32°08'57", Longitude 103°55'33" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 385 feet Land surface altitude: 3,169 feet above NAVD88. Well completed in "Pecos River Basin alluvial aquifer" (N100PCSRVR) national aquifer. Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	<b>Begin Date</b>	End Date	Count
Field groundwater-level measurements	1959-02-05	1998-01-28	5
<u>Revisions</u>	Unavailable (	site:0) (timese	eries:0)

#### **OPERATION:**

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to <u>New Mexico Water Science Center Water-Data</u> <u>Inquiries</u>

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms

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U.S. Department of the Interior | U.S. Geological Survey Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory? agency\_code=USGS&site\_no=320857103553301

Page Contact Information: <u>New Mexico Water Data Support Team</u> Page Last Modified: 2022-06-15 12:16:55 EDT 0.28 0.25 caww01





Received by OCD: 6/17/2022 N:03:15 Mexico Office of the State Engineer Page 24 of 87



# **Point of Diversion Summary**

				NW 2=N mallest to			(NAD83 U	TM in meters)	
Well Tag PO	D Number	Number Q64 Q16 Q4 Sec Tws Rng	х	Y					
С	02459	4	4	02	25S	29E	598422	3558663*	
Driller License:	1184	Driller	Comp	any:	WE	EST TEX	AS WATE	R WELL SERV	VICE
Driller Name:	COLLIS, ROBER	T E. (LD)							
Drill Start Date:	07/27/1995	Drill Fi	nish D	ate:	0	7/27/199	95 <b>P</b> I	ug Date:	07/27/1995
Log File Date:	08/13/1996	PCW R	cv Da	te:			Se	urce:	
Pump Type:		Pipe Di	scharg	e Size:			Es	timated Yield	:
Casing Size:		Depth V	Well:		1	50 feet	D	epth Water:	

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

4/19/22 11:39 AM

POINT OF DIVERSION SUMMARY



# APPENDIX B

Photographic Log





APPENDIX C

Lithologic / Soil Sampling Logs

								Sample Name: PH01	Date: 06/03/2022		
E				C	01			Site Name: ROW 4 Muy Wayno F	Pipeline		
14	-			2	OL			Incident Number: NAPP2209039			
								Job Number: 03E1558023			
		LITHOL	OGIC	C / SOIL S	AMPLING	LOG		Logged By: CS	Method: Backhoe		
Coord	inates:			-		Hole Diameter: NA	Total Depth: 4'				
Comm	ents: Fiel	d screeni	ng cor	nducted w	ith HACH Chl	PID for chloride and vapor, respec	tively. Chloride test				
perfor	med with	1:4 dilut	ion fa	ctor of soil	to distilled v	water. No co	prrection f	actors included.			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions		
Μ	5,964	1.5	Y		للـ ــــــــــــــــــــــــــــــــــ	0 	SW-SM	Brown, abundant silt, fine strong odor, staining, mo	grain, dark brown, pist, well sorted,		
Μ	6,462	1.2	Y		-	2		noncohesive.			
Μ	1,120	0.4	Ν			4		SAA, light brown color, me some small to large subr caliche, moist, (2cm-5cn	ounded to subangular		
						TD @	4 feet b	ogs			

-									Sample Name: <b>PH02</b>	Date: 06/03/2022		
				C	01				Site Name: ROW 4 Muy Wayno Pip			
15				3	OL		IV		Incident Number: NAPP2209039217			
and some other									Job Number: 03E1558023			
		LITHOL	OGIC	C / SOIL S	AMPLING	LOG			Logged By: CS	Method: Backhoe		
Coordi									Hole Diameter: NA	Total Depth: 4'		
Comm	ents: Field	d screeni	ng coi	nducted w	ith HACH Chl	nd F	PID for chloride and vapor, respective	vely. Chloride test				
performed with 1:4 dilution factor of soil to distilled water. No correction factors included.												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock	symbol	Lithologic Des	criptions		
M	3,000 1,864	1.2 0.9	Y Y		4     	0  2	SW-S	δM	Brown, abundant silt, fine gr strong odor, staining, moi noncohesive.	rain, dark brown, st, well sorted,		
М	<168	0.9	Ν			4			SAA, light brown color, med some small to large subro caliche, moist, (2cm-5cm)	unded to subangular		
TD @ 4 feet bgs												
Í												
Í								_				
Í												

									Sample Name: PH03	Date: 06/03/2022		
				C	01			4	Site Name: ROW 4 Muy Wayno Pip			
15				2	OL				Incident Number: NAPP2209039217			
									Job Number: 03E1558023			
		LITHOL	OGIC		AMPLING	LOG			Logged By: CS	Method: Backhoe		
Coord	Coordinates:								Hole Diameter: NA	Total Depth: 4'		
Comm	ents: Field	d screeni	ng coi	nducted w	ith HACH Chl	PID for chloride and vapor, respective	vely. Chloride test					
performed with 1:4 dilution factor of soil to distilled water. No correction factors included.												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock	Symbol	Lithologic Des	criptions		
M	3,466 324.8	0.6 1.4	Y Y		4 - - -	0 	SW-	SM	Brown, abundant silt, fine gr strong odor, staining, moi noncohesive.	rain, dark brown, st, well sorted,		
М	<168	0.6	Ν			- 4 			SAA, light brown color, med some small to large subro caliche, moist, (2cm-5cm)	unded to subangular		
TD @ 4 feet bgs												

									Sample Name: <b>PH04</b>	Date: 06/03/2022		
				C	01			4	Site Name: <b>ROW 4 Muy Wayno Pi</b>			
			N	3	OL	- U			Incident Number: NAPP2209039217			
									Job Number: 03E1558023			
		LITHOL	OGIC		SAMPLING	LOG			Logged By: CS	Method: Backhoe		
Coord	inates:					Hole Diameter: NA	Total Depth: 4'					
Comm	ents: Fiel	d screeni	ng coi	nducted w	ith HACH Chl	PID for chloride and vapor, respective	vely. Chloride test					
perfor	med with	1:4 dilut	ion fa	ctor of soil	to distilled v	actors included.						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock	Symbol	Lithologic Des	criptions		
M	1,624 <168			1 0 - - - - 2	SW-:	SM	Brown, abundant silt, fine gr strong odor, staining, moi noncohesive.	rain, dark brown, st, well sorted,				
M	<168	0.5	N			- 4 - 4 4 			SAA, light brown color, med some small to large subro caliche, moist, (2cm-5cm)	unded to subangular		
TD @ 4 feet bgs												



# APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Received by OCD: 6/17/2022 1:33:15 PM

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 890-2207-1

Laboratory Sample Delivery Group: 03E1558023 Client Project/Site: ROW 4 Muy Wayno

#### For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 4/28/2022 11:53:48 AM

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

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

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

LINKS **Review your project** results through Total Access **Have a Question?** Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 8/25/2022 2:38:02 PM

Laboratory Job ID: 890-2207-1 SDG: 03E1558023

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

2

Percent Recovery

**Dilution Factor** 

Contains Free Liquid Colony Forming Unit

Contains No Free Liquid

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive Quality Control

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Limit of Quantitation (DoD/DOE)

Duplicate Error Ratio (normalized absolute difference)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

¤

%R

CFL

CFU CNF

DER

DL

DLC

EDL

LOD

LOQ

MCL

MDA

MDC

MDL

MPN

MQL

NC

ND

NEG

POS

PQL PRES

QC RER

RL

RPD

TEF

TEQ

TNTC

ML

Dil Fac

DL, RA, RE, IN

*		8 9	-
	Definitions/Glossary		
Client: Ensolu	Im	Job ID: 890-2207-1	Ē
Project/Site: F	ROW 4 Muy Wayno	SDG: 03E1558023	
Qualifiers			
GC VOA			1
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		÷
F2	MS/MSD RPD exceeds control limits		
S1+	Surrogate recovery exceeds control limits, high biased.		5
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	Α		
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		2
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			1
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		l
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

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

4

5

#### Job ID: 890-2207-1 SDG: 03E1558023

#### Job ID: 890-2207-1

Client: Ensolum

#### Laboratory: Eurofins Carlsbad

Project/Site: ROW 4 Muy Wayno

#### Narrative

Job Narrative 890-2207-1

#### Receipt

The samples were received on 4/19/2022 4:26 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23940 and analytical batch 880-23883 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 samples were outside control limits: SS01 (890-2207-1) and (890-2207-A-1-F MSD). Evidence of matrix interferences is not obvious.

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

RL

0.00201

0.00201

Unit

mg/Kg

mg/Kg

D

Prepared

04/21/22 11:35

04/21/22 11:35

Result Qualifier

<0.00201 U

<0.00201 U

Job ID: 890-2207-1 SDG: 03E1558023

### **Client Sample ID: SS01**

Project/Site: ROW 4 Muy Wayno

Date Collected: 04/18/22 14:05 Date Received: 04/19/22 16:26

Sample Depth: 0.5

Client: Ensolum

Analyte

Benzene

Toluene

## Lab Sample ID: 890-2207-1

Analyzed

04/21/22 22:38

04/21/22 22:38

Matrix: Solid

Dil Fac

1

1

5

-ac	
1 1	
ac	
1	
ac	
1	

Ethylbenzene	<0.00201	U F2 F1	0.00201	mg/Kg		04/21/22 11:35	04/21/22 22:38	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402	mg/Kg		04/21/22 11:35	04/21/22 22:38	1
o-Xylene	<0.00201	U F1	0.00201	mg/Kg		04/21/22 11:35	04/21/22 22:38	1
Xylenes, Total	<0.00402	U F1	0.00402	mg/Kg		04/21/22 11:35	04/21/22 22:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	296	S1+	70 - 130			04/21/22 11:35	04/21/22 22:38	1
1,4-Difluorobenzene (Surr)	277	S1+	70 - 130			04/21/22 11:35	04/21/22 22:38	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/22/22 11:18	1
Method: 8015 NM - Diesel Rang	e Organics (DR	0) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/25/22 09:06	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	<b>RL</b> 49.9	Unit mg/Kg	<u>D</u>	Prepared 04/21/22 13:45	Analyzed 04/23/22 00:06	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u> </u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U U	49.9	mg/Kg	<u> </u>	04/21/22 13:45	04/23/22 00:06	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U U	49.9	mg/Kg	<u>D</u>	04/21/22 13:45 04/21/22 13:45	04/23/22 00:06	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9	mg/Kg	<u> </u>	04/21/22 13:45 04/21/22 13:45 04/21/22 13:45	04/23/22 00:06 04/23/22 00:06 04/23/22 00:06	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result           <49.9	Qualifier U U U	49.9 49.9 49.9 <b>Limits</b>	mg/Kg	<u>D</u>	04/21/22 13:45 04/21/22 13:45 04/21/22 13:45 <b>Prepared</b>	04/23/22 00:06 04/23/22 00:06 04/23/22 00:06 04/23/22 00:06 Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result           <49.9	Qualifier U U Qualifier S1+	49.9 49.9 49.9 <u>Limits</u> 70 - 130	mg/Kg	<u> </u>	04/21/22 13:45 04/21/22 13:45 04/21/22 13:45 <b>Prepared</b> 04/21/22 13:45	04/23/22 00:06 04/23/22 00:06 04/23/22 00:06 <u>Analyzed</u> 04/23/22 00:06	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result           <49.9	Qualifier U U Qualifier S1+	49.9 49.9 49.9 <u>Limits</u> 70 - 130	mg/Kg	<u>D</u>	04/21/22 13:45 04/21/22 13:45 04/21/22 13:45 <b>Prepared</b> 04/21/22 13:45	04/23/22 00:06 04/23/22 00:06 04/23/22 00:06 <u>Analyzed</u> 04/23/22 00:06	1 1 1

#### Date Collected: 04/18/22 14:10 Date Received: 04/19/22 16:26 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/21/22 11:35	04/21/22 22:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:59	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/21/22 11:35	04/21/22 22:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			04/21/22 11:35	04/21/22 22:59	1

Eurofins Carlsbad

Released to Imaging: 8/25/2022 2:38:02 PM

### **Client Sample Results**

Job ID: 890-2207-1 SDG: 03E1558023

# Lab Sample ID: 890-2207-2

Matrix: Solid

5

Date Collected: 04/18/22 14:10 Date Received: 04/19/22 16:26

**Client Sample ID: SS02** 

Project/Site: ROW 4 Muy Wayno

Sample Depth: 0.5

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130			04/21/22 11:35	04/21/22 22:59	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/22/22 11:18	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			04/25/22 09:06	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/21/22 13:45	04/23/22 01:11	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/21/22 13:45	04/23/22 01:11	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 13:45	04/23/22 01:11	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130			04/21/22 13:45	04/23/22 01:11	
o-Terphenyl	121		70 - 130			04/21/22 13:45	04/23/22 01:11	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9390		99.8	mg/Kg			04/27/22 17:46	20
lient Sample ID: SS03						Lab Sar	nple ID: 890-	2207-3
ate Collected: 04/18/22 14:15							Matri	x: Solic
ate Received: 04/19/22 16:26								
ample Depth: 0.5								
Method: 8021B - Volatile Organic	c Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Danzana	<0.00100		0.00100			04/01/00 11:05	04/01/00 00:10	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/21/22 11:35	04/21/22 23:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/21/22 11:35	04/21/22 23:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/21/22 11:35	04/21/22 23:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/21/22 11:35	04/21/22 23:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/21/22 11:35	04/21/22 23:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/21/22 11:35	04/21/22 23:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			04/21/22 11:35	04/21/22 23:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130			04/21/22 11:35	04/21/22 23:19	1
- Method: Total BTEX - Total B1	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/22/22 11:18	1
_ Method: 8015 NM - Diesel Rar	ge Organics (DR	O) (GC)						
Analyte	<b>U U</b>	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/25/22 09:06	1

Job ID: 890-2207-1 SDG: 03E1558023

Matrix: Solid

Lab Sample ID: 890-2207-3

### **Client Sample ID: SS03**

Project/Site: ROW 4 Muy Wayno

Date Collected: 04/18/22 14:15 Date Received: 04/19/22 16:26

Sample Depth: 0.5

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/21/22 13:45	04/23/22 01:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/21/22 13:45	04/23/22 01:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 13:45	04/23/22 01:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			04/21/22 13:45	04/23/22 01:32	1
o-Terphenyl	122		70 - 130			04/21/22 13:45	04/23/22 01:32	1

wethou. 500.0 - Amons, fon Chron	latography - Solu	ipie					
Analyte	Result Qual	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9060	49.8	mg/Kg			04/27/22 18:14	10

#### **Client Sample ID: SS04**

### Date Collected: 04/18/22 14:20

Date Received: 04/19/22 16:26 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 23:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 23:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 23:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/21/22 11:35	04/21/22 23:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 23:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/21/22 11:35	04/21/22 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			04/21/22 11:35	04/21/22 23:40	1
1,4-Difluorobenzene (Surr)	98		70 - 130			04/21/22 11:35	04/21/22 23:40	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/22/22 11:18	1
Method: 8015 NM - Diesel Rar	ige Organics (DR	O) (GC)						
Amelute	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result							

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/21/22 13:45	04/23/22 01:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/21/22 13:45	04/23/22 01:54	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 13:45	04/23/22 01:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			04/21/22 13:45	04/23/22 01:54	1
o-Terphenyl	120		70 - 130			04/21/22 13:45	04/23/22 01:54	1

		Clien	t Sample Re	sults				
Client: Ensolum							Job ID: 890	-2207-1
Project/Site: ROW 4 Muy Wayno							SDG: 03E1	558023
Client Sample ID: SS04						Lab Sar	nple ID: 890-	2207-4
Date Collected: 04/18/22 14:20							-	x: Solid
Date Received: 04/19/22 16:26								
Sample Depth: 0.5								
_								
Method: 300.0 - Anions, Ion Chi	• • • •	Soluble Qualifier	RL	Unit	D	Broporod	Analyzad	Dil Fac
Analyte Chloride		Quaimer	99.4	mg/Kg		Prepared	Analyzed 04/27/22 18:23	20
Client Sample ID: SS05						Lab San	nple ID: 890-	
Date Collected: 04/18/22 14:25							Matri	x: Solid
Date Received: 04/19/22 16:26								
Sample Depth: 0.5								
Method: 8021B - Volatile Organ	ic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/22/22 00:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/22/22 00:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/22/22 00:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 11:35	04/22/22 00:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/22/22 00:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 11:35	04/22/22 00:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/21/22 11:35	04/22/22 00:00	1
1,4-Difluorobenzene (Surr)	98		70 - 130			04/21/22 11:35	04/22/22 00:00	1
_ Method: Total BTEX - Total BTE	X Calculation							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400		0.00400	mg/Kg			04/22/22 11:18	1
Method: 8015 NM - Diesel Rang Analyte		O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	mg/Kg			04/25/22 09:06	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/21/22 13:45	04/23/22 02:15	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/21/22 13:45	04/23/22 02:15	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 13:45	04/23/22 02:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			04/21/22 13:45	04/23/22 02:15	1
o-Terphenyl	117		70 - 130			04/21/22 13:45	04/23/22 02:15	1
_ Method: 300.0 - Anions, Ion Chi	romatography -	Soluble						
Analyte		Qualifier	DI DI		_	<b>_</b> .		D!! E
	Result	Quaimer	RL	Unit	D	Prepared	Analyzed	Dil Fac

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

-				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2207-1	SS01	296 S1+	277 S1+	
890-2207-1 MS	SS01	106	100	
890-2207-1 MSD	SS01	107	102	
890-2207-2	SS02	108	99	
890-2207-3	SS03	104	97	
890-2207-4	SS04	106	98	
890-2207-5	SS05	105	98	
LCS 880-23940/1-A	Lab Control Sample	106	103	
LCSD 880-23940/2-A	Lab Control Sample Dup	104	101	
MB 880-23898/5-A	Method Blank	101	97	
MB 880-23940/5-A	Method Blank	99	91	
Surrogate Legend				
BFB = 4-Bromofluorobenzen	e (Surr)			
DFBZ = 1,4-Difluorobenzene	(Surr)			

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

#### Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2207-1	SS01	124	135 S1+
890-2207-1 MS	SS01	110	108
890-2207-1 MSD	SS01	133 S1+	128
890-2207-2	SS02	113	121
890-2207-3	SS03	115	122
890-2207-4	SS04	113	120
890-2207-5	SS05	110	117
LCS 880-23941/2-A	Lab Control Sample	115	109
LCSD 880-23941/3-A	Lab Control Sample Dup	116	113
MB 880-23941/1-A	Method Blank	113	125

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

**Page 41 of 87** 

Job ID: 890-2207-1 SDG: 03E1558023

Prep Type: Total/NA

Prep Type: Total/NA

Client: Ensolum Project/Site: ROW 4 Muy Wayno

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

Matrix: Solid Analysis Batch: 23833         Prep Type: Total/MA Prop Batch: 23836           Maile         Unit         D         Prep repared         Mailysis Ma	Lab Sample ID: MB 880-23898/5-A									Client Sa	mple ID: M	ethoc	Blank
MB         Ready         Ready         Dualifier         Number         Display         Display <thdisplay< th=""> <thdisplay< th=""> <thdisplay< <="" th=""><th>Matrix: Solid</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Prep Ty</th><th>pe: To</th><th>otal/NA</th></thdisplay<></thdisplay<></thdisplay<>	Matrix: Solid										Prep Ty	pe: To	otal/NA
Analysin         Genution         Qualifier         Ru         Unit         Q         Prepared         Analyzed         Dif Fac           Bornzono         -0.00200         U         0.00200         mgrKg         0.42122 0032         0.42122 1141         1           Environe         -0.00200         U         0.00200         mgrKg         0.42122 0032         0.42122 1141         1           Environe         -0.00200         U         0.00200         mgrKg         0.42122 0032         0.42122 1141         1           active         -0.00200         U         0.00200         mgrKg         0.42122 0132         0.42122 1141         1           active         -0.00200         Bathin         Linnis         -0.02122 1135         0.42122 217         1 <t< th=""><th>Analysis Batch: 23883</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Prep B</th><th><b>Batch</b>:</th><th>23898</th></t<>	Analysis Batch: 23883										Prep B	<b>Batch</b> :	23898
Bergenere         -0.00200         0.00200         mgKg         64/21/22 (20.32)         64/21/22 (21.41)         1           Tokume         -0.00200         0.00200         mgKg         64/21/22 (20.32)         64/21/22 (21.21.14.1         1           m-Xytene         -0.00200         0.00200         mgKg         64/21/22 (20.32)         64/21/22 (21.21.14.1         1           m-Xytene         -0.00200         0.00200         mgKg         64/21/22 (20.32)         64/21/22 (21.21.14.1         1           Xytene         -0.00200         0.00200         mgKg         64/21/22 (20.32)         64/21/22 (21.14.1         1           Xytenes, Total         -0.00200         0.00200         mgKg         64/21/22 (21.14.1         1           Surrogate         XRecovery         Gualifier         Limits         Prepared         Analyzed         DI Fac           Analyzed         Bergene         -0.00200         0.00200         mgKg         04/21/22 (21.14.1         1           Analyzed         Bergene         -0.00200         0.00200         mgKg         04/21/22 (21.14.1         1           Lob Sample ID:         MB 80-23940/5-A         Mathy         Mathy         DI Fac         04/21/22 (21.15.1         04/21/22 (21.17.1         1		M	B MB										
Tylene         -0.0020         0.00200         mgKq         0.00210         0.00200         mgKq         0.00212121141         1           avgemes         -0.00200         0.00200         mgKq         0.00212121141         1         0.00212121141         1           avgemes         -0.00200         0.00200         mgKq         0.0212121141         1         0.0212121141         1           surgers         -0.00200         0.00200         mgKq         0.0212121141         1         1           surgers         Stercory         0.0016         Dime         -0.00200         0.00200         mgKq         0.0212121141         1         1           Lab Sample ID: MB 880-23340/5-A         Matrix Sold         -0.00200         mgKq         0.021222113         0.0212221141         1         1           Analyse         Bencee         -0.00200         mgKq         0.002122113         0.021222117         1	Analyte	Resu	lt Qualifie	r R	RL	Unit		D	Р	repared	Analyzed	i i	Dil Fac
Emychanzene         0.00000         0.00200         mgKg         0.04/12/20133         0.04/12/21141         1           n-Xytene & -0.00200         0.00400         mgKg         0.04/12/21033         0.04/12/21141         1           Kytene         -0.00200         0.00400         mgKg         0.04/21/22 08.32         0.04/21/22 1141         1           Kytene         -0.00400         0.00400         mgKg         0.04/21/22 08.32         0.04/21/22 1141         1           Kytene         -0.00400         0.00400         mgKg         0.04/21/22 08.32         0.04/21/22 1141         1           Kytene         -0.00400         0.00400         mgKg         0.04/21/22 08.32         0.04/21/22 1141         1           Lab Sample (D: MB 880-23940/5-A         MB          Client Sample (D: MbHod Blank         Propared         Analyzed         Dif Fac           Matrix: Solid         Analyze         0.00200         mgKg         0.04/21/22 1135         0.4/21/22 217         1           Tolune         -0.00200         0.00200         mgKg         0.04/21/22 1135         0.4/21/22 217         1           Tolune         -0.00200         0.00200         mgKg         0.4/21/22 1135         0.4/21/22 217         1 <t< td=""><td>Benzene</td><td>&lt;0.0020</td><td>0 U</td><td>0.0020</td><td>00</td><td>mg/K</td><td>g</td><td>_</td><td>04/2</td><td>21/22 09:32</td><td>04/21/22 11</td><td>:41</td><td>1</td></t<>	Benzene	<0.0020	0 U	0.0020	00	mg/K	g	_	04/2	21/22 09:32	04/21/22 11	:41	1
m-Xyene & p-Xyene → 0.0000 U 0.0000 mgKg 04/21/22 03.2 04/21/22 11.41 1 o-Xyene & -0.0000 U 0.0000 mgKg 04/21/22 03.2 04/21/22 11.41 1  ME ME Surrogate → 0.0000 U 0.0000 mgKg 04/21/22 03.3 04/21/22 11.41 1  ME ME Client Sample ID: ME 880-23940/5-A Matrix: Sold Analysis Batch: 23883 ME ME Exyelence = -0.0000 U 0.00000 mgKg 04/21/22 03.3 04/21/22 11.41 1  Lab Sample ID: ME 880-23940/5-A ME ME Exyelence = -0.0000 U 0.00000 mgKg 04/21/22 03.3 04/21/22 11.41 1  Lab Sample ID: ME 880-23940/5-A ME ME Surrogate ← 0.0000 U 0.00000 mgKg 04/21/22 03.3 04/21/22 11.41 1  Lab Sample ID: ME 880-23940/5-A Matrix: Sold Analysis Batch: 23883 ME ME Surrogate ← 0.0000 U 0.00000 mgKg 04/21/22 11.35 04/21/22 21.7 1  Etyberszne ← 0.0000 U 0.00000 mgKg 04/21/22 11.35 04/21/22 21.7 1  Lab Sample ID: LCS 880-23940/1-A ME ME Surrogate ← 0.0000 U 0.00000 mgKg 04/21/22 11.35 04/21/22 21.7 1  Lab Sample ID: LCS 880-23940/1-A Analysis Batch: 2383 Spike LCS LCS Surrogate ← 0.100 0.00000 mgKg 99 70.130 Client Sample ID: Lab Control Sample D: Lab Cont	Toluene	<0.0020	0 U	0.0020	00	mg/K	g		04/2	21/22 09:32	04/21/22 11	:41	1
xylenes         c0.00000         U         0.002000         mg/Kg         0.0021/02 00-32         0.0021/02 11:41         1           Surrogsie         MB	Ethylbenzene	<0.0020	0 U	0.0020	00	mg/K	g		04/2	21/22 09:32	04/21/22 11	:41	1
Xylenes, Total         -0.00400         U         0.00400         mgKg         04/21/22 00:32         04/21/22 11:41         1           Surragate         'KRecovery 0ualifier         Linits         Prepared         Analyzed         Di Fac 04/21/22 00:32         04/21/22 00:32         04/21/22 00:32         04/21/22 00:32         04/21/22 00:32         04/21/22 00:32         04/21/22 00:32         04/21/22 00:32         04/21/22 00:32         04/21/22 00:32         04/21/22 11:34         1           Lab Sample ID: IMB 80-23940/5-A         Ki         Ki         Ki         Frep Type: Total/NA           Analysis Batch: 2383         Ki         Ki         Frep Type: Total/NA         Prepared         Analyzed         Pice           Benzame         -0.00200         mgKg         04/21/22 11:35         04/21/22 21:7         1           Tableme         -0.00200         mgKg         04/21/22 11:35         04/21/22 21:7         1           Sylene A -0.00200         U         0.00200         mgKg         04/21/22 11:35         04/21/22 21:7         1           Xylene A -0.00200         U         0.00200         mgKg         04/21/22 11:35         04/21/22 21:7         1           Xylene A -0.00200         U         0.00400         mgKg         04/21/22 11:35         0	m-Xylene & p-Xylene	<0.0040	0 U	0.0040	00	mg/K	g		04/2	21/22 09:32	04/21/22 11	:41	1
MB         MB           Surrogate         \$\$Recovery         Qualifier         Limits         Propared         Analyzed         DIF Fac           -Ebernofilourobenzere (Surr)         97         70.130         04/21/22 09.32         04/21/22 09.32         04/21/22 01.31         1           Lab Sample ID: MB 880-23940/5-A         MB MB         Client Sample ID: MB 880-23940/5-A         Prepared         04/21/22 09.32         04/21/22 11.31         04/21/22 21.71         1           Lab Sample ID: MB 880-23940/5-A         MB MB         Analyze         Dif Fac         Prepared         04/21/22 21.73         04/21/22 21.71         1           Analyze          0.00200         mgKg         04/21/22 11.35         04/21/22 22.17         1           Tolume          0.00200         0.000200         mgKg         04/21/22 11.35         04/21/22 22.17         1           Tolume          0.00200         0.000200         mgKg         04/21/22 11.35         04/21/22 22.17         1           Surrogate           0.000200         mgKg         04/21/22 11.35         04/21/22 22.17         1           Surrogate           0.001600         mgKg         04/21/22 11.35         04/21/22 22.17	o-Xylene	<0.0020	0 U	0.0020	00	mg/K	g		04/2	21/22 09:32	04/21/22 11	:41	1
surgets         %Recovery 4-dromofiloarobenzene (Sum)         Outlifier         Limits         Propriet         Analyzed         Dif Fac 04/21/22 09.32         04/21/22 09.35         04/21/22 09.32         04/21/22	Xylenes, Total	<0.0040	0 U	0.0040	00	mg/K	g		04/2	21/22 09:32	04/21/22 11	:41	1
surgets         %Recovery 4-dromofiloarobenzene (Sum)         Outlifier         Limits         Propriet         Analyzed         Dif Fac 04/21/22 09.32         04/21/22 09.35         04/21/22 09.32         04/21/22		N	R MR										
Homoliumobarzene (Surr)         107         70.130         04/21/22 (9:32         04/21/22 (1:47)         1           1.4-Diffuorobenzene (Surr)         97         70.130         04/21/22 (9:32         04/21/22 (1:47)         1           Lab Sample ID: MB 880-23940/5-A Matrix: Solid         MB MB         Client Sample ID: Method Blank Prop Batch: 23940           Analyte         Result Qualifier         RL         Unit         D         Prepared         Analyzed         Dil Fac           Berrene         <0.00200	Surrogate			r Limits					P	Prepared	Analyzed	1	Dil Fac
1.4 - Offluorobenzene (Surr)       97       70 - 130       04/21/22 09:32       04/21/22 11:31       1         Lab Sample ID: MB 880-23940/5-A Matrix: Solid       Client Sample ID: MB 880-23940/5-A Prep Type: Total/NA Prep Batch: 23803       Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 23940         Analysis Batch: 23883       MB ME       D       Prepared Analyzis       Analyzed Ot/21/22 21:35       Ot/21/22 22:17       1         Toluene       <0.00200		-		70 - 130	<u> </u>					-			1
Prep Type: Total/NA Prep Batch: 23883           MB MB           Analysis Batch: 23883         Chit         D         Prep Type: Total/NA Prep Batch: 23940           Analyse         Result         Qualifier         Rit         Unit         D         Prep Type: Total/NA Prep Batch: 23940           Benzene         <0.00200         0.00200         mg/Kg         04/21/22 11:35         04/21/22 11:35         04/21/22 21:7         1           Ethylenzene         <0.00200         0.00200         mg/Kg         04/21/22 11:35         04/21/22 21:7         1           Ethylenzene         <0.00200         0.00200         mg/Kg         04/21/22 11:35         04/21/22 21:7         1           or-Xylene & p.Xylene         <0.00400         0.00200         mg/Kg         04/21/22 11:35         04/21/22 21:7         1           Surrogate         '%Recovery         Qualifier         Limits         Prep Prev Total/NA           Haff MB         MB         MB         MB         MB         Prep Type: Total/NA           Surrogate         '%Recovery         Qualifier         Limits         Prep Type: Total/NA           Haff MB         MB         MB         MB         MB         Prep Type: Total/NA           Surrogate	1,4-Difluorobenzene (Surr)	Ş	7	70 - 130	1				04/2	21/22 09:32	04/21/22 11	:41	1
Prep Type: Total/NA Prep Batch: 23883           MB MB           Analysis Batch: 23883         Chit         D         Prep Type: Total/NA Prep Batch: 23940           Analyse         Result         Qualifier         Rit         Unit         D         Prep Type: Total/NA Prep Batch: 23940           Benzene         <0.00200         0.00200         mg/Kg         04/21/22 11:35         04/21/22 11:35         04/21/22 21:7         1           Ethylenzene         <0.00200         0.00200         mg/Kg         04/21/22 11:35         04/21/22 21:7         1           Ethylenzene         <0.00200         0.00200         mg/Kg         04/21/22 11:35         04/21/22 21:7         1           or-Xylene & p.Xylene         <0.00400         0.00200         mg/Kg         04/21/22 11:35         04/21/22 21:7         1           Surrogate         '%Recovery         Qualifier         Limits         Prep Prev Total/NA           Haff MB         MB         MB         MB         MB         Prep Type: Total/NA           Surrogate         '%Recovery         Qualifier         Limits         Prep Type: Total/NA           Haff MB         MB         MB         MB         MB         Prep Type: Total/NA           Surrogate													
MB MB         Prep Batch: 23940           Analyte         Result         Qualifier         RL         Unit         D         Prep Pared         Analyzed         DI Fac           Benzane         <0.00200	-									Client Sa			
MB         MB         MB           Analyte         Result         Qualifier         NL         Unit         D         Prepared         Analyze         Difac           Berzene         <0.00200													
Analyte         Result         Qualifier         RL         Unit         D         Prepared         Analyzed         Dil Fac           Berzane         <0.00200         0.00200         mg/Kg         04/21/22 11:35         04/21/22 21:7         1           Tollene         <0.00200         U         0.00200         mg/Kg         04/21/22 11:35         04/21/22 21:7         1           Ethylbenzene         <0.00200         U         0.00200         mg/Kg         04/21/22 11:35         04/21/22 21:7         1           m.Xylene & p.Xylene         <0.00200         mg/Kg         04/21/22 11:35         04/21/22 22:17         1           xylenes, Total         <0.00400         U         0.00400         mg/Kg         04/21/22 21:35         04/21/22 22:17         1           Surrogate          %Recovery         Qualifier         Limits         04/21/22 21:35         04/21/22 22:17         1           Lab Sample ID: LCS 880-23940/1-A         Matrix: Solid          Prepared         Analyzed         DI Fac           Analyte         Added         Result         Qualifier         Unit         D         %Rec         Virep Type: Total/NA           Benzene         0.100         0.00986         mg/Kg <t< th=""><th>Analysis Balch. 23003</th><th>M</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Prep B</th><th>atch</th><th>. 23940</th></t<>	Analysis Balch. 23003	M									Prep B	atch	. 23940
Benzene         <0.00200	Amelute					l la it		-			Analyzad		
Toluene         -0.00200         U         0.00200         mg/kg         04/21/22 11:35         04/21/22 21:7         1           Ettylbenzene         -0.00200         U         0.00200         mg/kg         04/21/22 11:35         04/21/22 21:7         1           m:Xylene & -0.00400         U         0.00200         mg/kg         04/21/22 11:35         04/21/22 22:17         1           xylene         -0.00400         U         0.00200         mg/kg         04/21/22 11:35         04/21/22 22:17         1           Xylenes, Total         -0.00400         U         0.00400         mg/kg         04/21/22 11:35         04/21/22 22:17         1           Surogate         -%Recovery         Qualifier         Limits         7         7         1           4-Bromofluorobenzene (Surr)         91         70-130         04/21/22 11:35         04/21/22 12:17         1           Lab Sample ID: LCS 880-23940/1-A         Kecovery         Qualifier         Limits         Prepared         Analyzed         Dif Ac           Harity: Solid         Analyze         No100         0.09886         mg/kg         99         70-130           Toluene         0.100         0.09898         mg/kg         101         70-130         70-		-					~	_					
Ethylbenzene         <0.00200         mg/kg         0.4/21/22 11:35         0.4/21/22 21:7         1           m:Xylene & p-Xylene         <0.00400						-	-						
m-Xylene         <0.00400         U         0.00400         mg/Kg         0.4/21/22 11:35         0.4/21/22 22:17         1           o-Xylene         <0.00200						-	-						-
o-Xylene          0.00200         U         0.00200         mg/kg         04/21/22         04/21/22         11:35         04/21/22         12:2:17         1           Xylenes, Total          MB													
Xylenes, Total         <0.00400         U         0.00400         mg/Kg         04/21/22 11:35         04/21/22 22:17         1           MB         MB         MB         MB         Prepared         Analyzed         D// Fac           4-Bromofluorobenzene (Surr)         99         70 - 130         04/21/22 11:35         04/21/22 22:17         1           1.4-Difluorobenzene (Surr)         91         70 - 130         04/21/22 11:35         04/21/22 22:17         1           Lab Sample ID: LCS 880-23940/1-A         Spike         LCS         LCS         LCS         MB         MPrep Type: Total/NA           Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits           Benzene         0.100         0.00986         mg/Kg         99         70 - 130         Prep Type: Total/NA           Surrogate         & Added         Result         Qualifier         Unit         D         %Rec         Limits           Benzene         0.100         0.00986         mg/Kg         99         70 - 130           Toluene         0.200         0.2021         mg/Kg         101         70 - 130           Surrogate         & KRecovery         Qualifier         Limit						-	-						
MB         MB           Surrogate         %Recovery         Qualifier         Limits           4-Bromofluorobenzene (Surr)         99         70 - 130         04/21/22 11:35         04/21/22 22:17         1           1.4-Difluorobenzene (Surr)         91         70 - 130         04/21/22 11:35         04/21/22 22:17         1           Lab Sample ID: LCS 880-23940/1-A         Client Sample ID: Lab Control Sample         Prep Type: Total/NA           Matrix: Solid         Analyte         Added         Result         Qualifier         Unit         D         %Rec         Frep Type: Total/NA           Analyte         Added         Result         Qualifier         Unit         D         %Rec         Frep Type: Total/NA           Benzene         0.100         0.00988         mg/Kg         99         70 - 130         Frep Type: Total/NA           Tokene         0.100         0.09988         mg/Kg         99         70 - 130         Frep Type: Total/NA           Arkytene         0.200         0.2021         mg/Kg         101         70 - 130           o-Xylene         0.100         0.1023         mg/Kg         102         70 - 130           1.4-Difluorobenzene (Surr)         103         70 - 130         Prep Type: Total/N	-					-	-						-
Surrogate         %Recovery         Qualifier         Limits           4-Bromofluorobenzene (Surr)         99         70.130         04/21/22 11:35         04/21/22 22:17         1           1.4-Difluorobenzene (Surr)         91         70.130         04/21/22 11:35         04/21/22 22:17         1           Lab Sample ID: LCS 880-23940/1-A         Client Sample ID: Lab Control Sample         Prep Type: Total/NA           Matrix: Solid         Analyte         Added         Result         Qualifier         Unit         D         %Rec         Prep Type: Total/NA           Benzene         0.100         0.1005         mg/Kg         100         70.130         Prep Batch: 23940           Toluene         0.100         0.1005         mg/Kg         99         70.130         Prep Type: Total/NA           Benzene         0.100         0.1005         mg/Kg         99         70.130         Prep Type: Total/NA           Stringe & p-Xylene         0.200         0.2021         mg/Kg         101         70.130         Prep Explexite: 23940           A-Ablyte         0.200         0.2021         mg/Kg         101         70.130         Prep Type: Total/NA           A-Lytipe         Matrix: Solid         70.130         70.130         Prep Type: Tot	Xylenes, Iotal	<0.0040	0 0	0.0040	00	mg/K	g		04/2	21/22 11:35	04/21/22 22	:17	1
4-Bromofluorobenzene (Surr)         99         70.130         04/21/22 11:35         04/21/22 22:17         1           1.4-Difluorobenzene (Surr)         91         70.130         04/21/22 11:35         04/21/22 22:17         1           1.4-Difluorobenzene (Surr)         91         70.130         04/21/22 11:35         04/21/22 22:17         1           1.4-Difluorobenzene (Surr)         91         70.130         04/21/22 11:35         04/21/22 22:17         1           1.4-Difluorobenzene (Surr)         91         70.130         04/21/22 11:35         04/21/22 22:17         1           1.4b Sample ID: LCS 880-23940/1-A         Matrix: Solid         Prep Batch: 23940         Prep Type: Total/NA         Prep Batch: 23940           Analyte         Added         Result         Qualifier         Unit         D         %Rec           Benzene         0.100         0.0098         mg/Kg         99         70.130         100           Toluene         0.100         0.09908         mg/Kg         101         70.130         70.130           wXylene & p-Xylene         0.200         0.2021         mg/Kg         102         70.130           1.4-Difluorobenzene (Surr)         106         70.130         70.130         70.130         70.130		M	B MB										
1.4-Difluorobenzene (Surr)       91       70.130       04/21/22 11:35       04/21/22 22:17       1         Lab Sample ID: LCS 880-23940/1-A Matrix: Solid Analysis Batch: 23883       Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 23940         Analyte Benzene       Spike       LCS       LCS       LCS       %Rec         Analyte Benzene       0.100       0.009886       mg/Kg       100       70.130         Toluene       0.100       0.09906       mg/Kg       99       70.130         Ethylbenzene       0.200       0.2021       mg/Kg       101       70.130         m-Xylene & p-Xylene       0.200       0.2021       mg/Kg       102       70.130         o-Xylene       UCS       LCS       LS       Surrogate       %Recovery       Qualifier       Limits         4-Bromofluorobenzene (Surr)       103       70.130       70.130       70.130       70.130         1.4-Difluorobenzene (Surr)       103       70.130       Prep Type: Total/NA       Prep Type: Total/NA         Analysis Batch: 23843       %Recovery       Qualifier       Limits       Prep Type: Total/NA         Analysis Batch: 23843       Prep Batch: 23840       Prep Batch: 23840       Prep Batch: 23840	Surrogate	%Recove	y Qualifie	r Limits					P	Prepared	Analyzed	1	Dil Fac
Lab Sample ID: LCS 880-23940/1-A Matrix: Solid Analysis Batch: 23883Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 23940AnalyteSpikeLCSLCS%RecAnalyteAddedResultQualifierUnitD%RecLimitsBenzene0.1000.0005mg/Kg9970.130Toluene0.1000.09908mg/Kg9970.130Ethylbenzene0.1000.09908mg/Kg10170.130o-Xylene & p-Xylene0.2000.2021mg/Kg10170.1300-XyleneCLSLCSLCSLCSSurrogate%Recovery 103QualifierLimits 70.130Prep Type: Total/NAAbsomple ID: LCSD 880-23940/2-A Matrix: Solid Analysis Batch: 23883SpikeLCSD LCSDKeotoriol Sample Dup Prep Type: Total/NAAnalyteSpikeLCSD LCSDWRecRPDLimits RPDAnalyteAddedResultQualifierUnitD%RecMatrix: Solid AnalyteSpikeLCSD LCSD%RecRPDLimit	4-Bromofluorobenzene (Surr)	Ś	9	70 - 130					04/2	21/22 11:35	04/21/22 22	2:17	1
Matrix: Solid Analysis Batch: 23883         Prep Type: Total/NA Prep Batch: 23940           Analyte         Spike         LCS         LCS         WRec         Limits         Prep Batch: 23940           Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits         Prep Batch: 23940           Benzene         0.100         0.1005         mg/Kg         100         70.130         Prep Type: Total/NA           Toluene         0.100         0.1005         mg/Kg         99         70.130         Prep Type: Total/NA           Ethylsenzene         0.100         0.00986         mg/Kg         99         70.130         Prep Type: Total/NA           m-Xylene & p-Xylene         0.200         0.2021         mg/Kg         101         70.130         Prep Type: Total/NA           o-Xylene         0.100         0.1023         mg/Kg         102         70.130         Prep Type: Total/NA           Arearoofluorobenzene (Surr)         106         70.130         Prep Type: Total/NA         Prep Type: Total/NA           Analysis Batch: 23840         Matrix: Solid         Prep Type: Total/NA         Prep Type: Total/NA           Analysis Batch: 23883         Spike         LCSD         LCSD         %Rec	1,4-Difluorobenzene (Surr)	9	1	70 - 130	1				04/2	21/22 11:35	04/21/22 22	2:17	1
Matrix: Solid Analysis Batch: 23883         Prep Type: Total/NA Prep Batch: 23940           Analyte         Spike         LCS         LCS         WRec         Limits         Prep Batch: 23940           Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits         Prep Batch: 23940           Benzene         0.100         0.1005         mg/Kg         100         70.130         Prep Type: Total/NA           Toluene         0.100         0.1005         mg/Kg         99         70.130         Prep Type: Total/NA           Ethylsenzene         0.100         0.00986         mg/Kg         99         70.130         Prep Type: Total/NA           m-Xylene & p-Xylene         0.200         0.2021         mg/Kg         101         70.130         Prep Type: Total/NA           o-Xylene         0.100         0.1023         mg/Kg         102         70.130         Prep Type: Total/NA           Arearoofluorobenzene (Surr)         106         70.130         Prep Type: Total/NA         Prep Type: Total/NA           Analysis Batch: 23840         Matrix: Solid         Prep Type: Total/NA         Prep Type: Total/NA           Analysis Batch: 23883         Spike         LCSD         LCSD         %Rec	 Lab Sample ID: LCS 880-23940/1_/	•						6	lion	Sample	ID: Lab Con	trol 9	Samplo
Analysis Batch: 23883         Prep Batch: 23940           Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits	-								mern				
Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits													
Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits           Benzene         0.100         0.0005         mg/Kg         100         70.130           Toluene         0.100         0.09886         mg/Kg         99         70.130           Ethylbenzene         0.100         0.09908         mg/Kg         99         70.130           m-Xylene & p-Xylene         0.200         0.2021         mg/Kg         101         70.130           o-Xylene         0.100         0.1023         mg/Kg         102         70.130           1.4-Difluorobenzene (Surr)         103         70.130         70.130         103         101         102         70.130           Lab Sample ID: LCSD 880-23940/2-A         Elab Sample ID: LCSD 880-23940/2-A         Elab Sample ID: Lab Control Sample Dup         Prep Type: Total/NA           Matrix: Solid         Prep Batch: 23940         Spike         LC	Analysis Datch. 20000			Spike	LCS	LCS						aton	. 20040
Benzene         0.100         0.1005         mg/Kg         100         70.130           Toluene         0.100         0.09886         mg/Kg         99         70.130           Ethylbenzene         0.100         0.09908         mg/Kg         99         70.130           m-Xylene & p-Xylene         0.200         0.2021         mg/Kg         101         70.130           o-Xylene         0.100         0.1023         mg/Kg         102         70.130            LCS         LCS         LCS         Surrogate         %Recovery         Qualifier         Limits           1.4-Difluorobenzene (Surr)         103         70.130         70.130         Prep Type: Total/NA           1.4-Difluorobenzene (Surr)         103         70.130         Prep Type: Total/NA           Analysis Batch: 23883         Prep Batch: 23940         Prep Batch: 23940           Analyte         Added         Result         Qualifier         Unit         D         %Rec         RPD	Analyte			-			Unit		р	%Rec			
Toluene       0.100       0.09886       mg/Kg       99       70.130         Ethylbenzene       0.100       0.09908       mg/Kg       99       70.130         m-Xylene & p-Xylene       0.200       0.2021       mg/Kg       101       70.130         o-Xylene       0.100       0.1023       mg/Kg       102       70.130         LCS       LCS       LCS       Surrogate       %Recovery       Qualifier       Limits         4-Bromofluorobenzene (Surr)       106       70.130       70.130       70.130         1,4-Difluorobenzene (Surr)       103       70.130       Prep Type: Total/NA         Matrix: Solid       Nartix: Solid       Prep Batch: 23840       Prep Batch: 23940         Analysis Batch: 2383       Spike       LCSD LCSD       %Rec       RPD         Analyte       Added       Resut       Qualifier       Unit       D       %Rec       RPD       Limit													
Ethylbenzene       0.100       0.09908       mg/Kg       99       70 - 130         m-Xylene & p-Xylene       0.200       0.2021       mg/Kg       101       70 - 130         o-Xylene       0.100       0.1023       mg/Kg       102       70 - 130         LCS LCS         Surrogate       %Recovery       Qualifier       Limits         4-Bromofluorobenzene (Surr)       106       70 - 130         1,4-Difluorobenzene (Surr)       103       70 - 130         Lab Sample ID: LCSD 880-23940/2-A       Katrix: Solid       Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA         Matrix: Solid       Prep Batch: 23840       Prep Batch: 23940         Analyte       Added       Result       Qualifier       Unit       D       %Rec       RPD													
m-Xylene & p-Xylene       0.200       0.2021       mg/Kg       101       70.130         o-Xylene       0.100       0.1023       mg/Kg       102       70.130         LCS LCS         Surrogate       %Recovery       Qualifier       Limits         4-Bromofluorobenzene (Surr)       106       70.130         1,4-Difluorobenzene (Surr)       103       70.130         Lab Sample ID: LCSD 880-23940/2-A       Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Type: Total/NA Prep Batch: 23940         Analysis Batch: 23883       Spike       LCSD       LCSD       %Rec       RPD KRPD													
o-Xylene 0.100 0.1023 mg/Kg 102 70-130 LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 106 70-130 1,4-Difluorobenzene (Surr) 103 70-130 Lab Sample ID: LCSD 880-23940/2-A Matrix: Solid Analysis Batch: 23883 Spike LCSD LCSD SD SD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit													
LCS       LCS       LCS         Surrogate       %Recovery       Qualifier       Limits         4-Bromofluorobenzene (Surr)       106       70 - 130         1,4-Difluorobenzene (Surr)       103       70 - 130         1,4-Difluorobenzene (Surr)       103       70 - 130         Lab Sample ID: LCSD 880-23940/2-A       Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA         Matrix: Solid       Prep Batch: 23883       Prep Batch: 23940         Analysis Batch: 23883       Spike       LCSD       %Rec       RPD         Analyte       Added       Result       Qualifier       Unit       D       %Rec       Limits													
Surrogate       %Recovery       Qualifier       Limits         4-Bromofluorobenzene (Surr)       106       70 - 130         1,4-Difluorobenzene (Surr)       103       70 - 130         Lab Sample ID: LCSD 880-23940/2-A       Client Sample ID: Lab Control Sample Dup         Matrix: Solid       Prep Type: Total/NA         Analysis Batch: 23883       Prep Batch: 23940         Analyte       Added       Result       Qualifier       Unit       D       %Rec       RPD       Limits	О-Лунене			0.100	0.1025		iiig/kg			102	70 - 130		
4-Bromofluorobenzene (Surr)       106       70 - 130         1,4-Difluorobenzene (Surr)       103       70 - 130         Lab Sample ID: LCSD 880-23940/2-A       Client Sample ID: Lab Control Sample Dup         Matrix: Solid       Prep Type: Total/NA         Analysis Batch: 23883       Prep Batch: 23940         Analyte       Added       Result       Qualifier       Unit       D       %Rec       RPD       Limits													
1,4-Difluorobenzene (Surr)       103       70 - 130         Lab Sample ID: LCSD 880-23940/2-A Matrix: Solid Analysis Batch: 23883       Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA         Spike       LCSD       Prep Batch: 23940         Analyte       Added       Result       Qualifier       Unit       D       %Rec       RPD       Limits			ualifier										
Lab Sample ID: LCSD 880-23940/2-A       Client Sample ID: Lab Control Sample Dup         Matrix: Solid       Prep Type: Total/NA         Analysis Batch: 23883       Prep Batch: 23940         Spike       LCSD       %Rec       RPD         Analyte       Added       Result       Qualifier       Unit       D       %Rec       Limit	4-Bromofluorobenzene (Surr)												
Matrix: Solid     Prep Type: Total/NA       Analysis Batch: 23883     Prep Batch: 23940       Spike     LCSD     %Rec     RPD       Analyte     Added     Result     Qualifier     Unit     D     %Rec     RPD     Limits	1,4-Difluorobenzene (Surr)	103		70 - 130									
Matrix: Solid     Prep Type: Total/NA       Analysis Batch: 23883     Prep Batch: 23940       Spike     LCSD     %Rec     RPD       Analyte     Added     Result     Qualifier     Unit     D     %Rec     RPD     Limits	 Lab Sample ID: LCSD 880-23940/2	- <b>A</b>					Cli	ient	San	nple ID: La	ab Control S	Samp	de Dup
Analysis Batch: 23883     Prep Batch: 23940       Spike     LCSD     KRec     RPD       Analyte     Added     Result     Qualifier     Unit     D     KRec     RPD													
Spike     LCSD     %Rec     RPD       Analyte     Added     Result     Qualifier     Unit     D     %Rec     RPD     Limits													
Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit	· · · · · · · · · · · · · · · · · · ·			Spike	LCSD	LCSD							
	Analyte			-			Unit		D	%Rec		RPD	

5

Job ID: 890-2207-1

SDG: 03E1558023

Released to Imaging: 8/25/2022 2:38:02 PM

Client: Ensolum Project/Site: ROW 4 Muy Wayno Job ID: 890-2207-1 SDG: 03E1558023

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

Lab Sample ID: LCSD 880-2394	0/2-A					Clier	nt Sam	ple ID:	Lab Contro		
Matrix: Solid										ype: To	
Analysis Batch: 23883										Batch:	
			Spike		LCSD				%Rec		RPI
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Toluene			0.100	0.09442		mg/Kg		94	70 - 130	5	3
Ethylbenzene			0.100	0.09448		mg/Kg		94	70 - 130	5	3
m-Xylene & p-Xylene			0.200	0.1923		mg/Kg		96	70 - 130	5	3
o-Xylene			0.100	0.09722		mg/Kg		97	70 - 130	5	3
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	104		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								
Lab Sample ID: 890-2207-1 MS									Client Sar	nple ID:	SS0
Matrix: Solid										· ype: To	
Analysis Batch: 23883									Prep	Batch:	2394
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00201	U	0.101	0.1025		mg/Kg		102	70 - 130		
Toluene	<0.00201	U	0.101	0.09214		mg/Kg		91	70 - 130		
Ethylbenzene	<0.00201	U F2 F1	0.101	0.07746		mg/Kg		77	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.1606		mg/Kg		80	70 - 130		
o-Xylene	<0.00201	U F1	0.101	0.07856		mg/Kg		78	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								
Lab Sample ID: 890-2207-1 MSE	)								Client Sar	nple ID:	SS0
Matrix: Solid									Prep T	ype: To	tal/N
Analysis Batch: 23883									Prep	Batch:	2394
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene	<0.00201	U	0.0994	0.09413		mg/Kg		95	70 - 130	9	3
Toluene	<0.00201	U	0.0994	0.08168		mg/Kg		82	70 - 130	12	3
Ethylbenzene	<0.00201	U F2 F1	0.0994	0.03017	F2 F1	mg/Kg		30	70 - 130	88	3
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1354	F1	mg/Kg		68	70 - 130	17	3
o-Xylene	<0.00201	U F1	0.0994	0.06657	F1	mg/Kg		67	70 - 130	17	3
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	107		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

Lab Sample ID: MB 880-23941/1-A Matrix: Solid Analysis Batch: 24009						Client Sa	mple ID: Metho Prep Type: ⊺ Prep Batcł	Total/NA
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/21/22 13:45	04/22/22 23:02	1
(GRO)-C6-C10								

Lab Sample ID: MB 880-23941/1-A

### **QC Sample Results**

Client: Ensolum Project/Site: ROW 4 Muy Wayno

Matrix: Solid

Analysis Batch: 24009

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

	Job ID: 890 SDG: 03E	
 Client Sa	mple ID: Metho Prep Type: <sup>-</sup>	Total/NA
	Prep Batcl	n: 23941

**Client Sample ID: Lab Control Sample** 

	MB	MB					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 13:45	04/22/22 23:02
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 13:45	04/22/22 23:02
	МВ	МВ					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed
1-Chlorooctane			70 - 130			04/21/22 13:45	04/22/22 23:02
o-Terphenyl	125		70 - 130			04/21/22 13:45	04/22/22 23:02

#### Lab Sample ID: LCS 880-23941/2-A Matrix: Solid

Matrix: Solid							Prep 1	Type: Total/NA
Analysis Batch: 24009							Prep	Batch: 23941
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	921.4		mg/Kg		92	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1216		mg/Kg		122	70 - 130	
C10-C28)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-23941/3-A				Clier	nt Sam	ple ID:	Lab Contro	I Sample	e Dup
Matrix: Solid							Prep 1	Type: Tot	tal/NA
Analysis Batch: 24009							Prep	Batch:	23941
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	953.6		mg/Kg		95	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1108		mg/Kg		111	70 - 130	9	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	113		70 - 130

#### Lab Sample ID: 890-2207-1 MS Matrix: Solid Analysis Batch: 24009

Analysis Batch: 24009									Prep	Batch: 23941
	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	1000	947.1		mg/Kg		93	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	961.1		mg/Kg		96	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	108		70 - 130

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Dil Fac

Client Sample ID: SS01

Prep Type: Total/NA

Client: Ensolum Project/Site: ROW 4 Muy Wayno

### Method: 8015B NM - Die

, - <u>,</u> , ,									-			
Method: 8015B NM - Diesel	Range O	rganics (D	)RO) (GC) ((	Continue	ed)							
Lab Sample ID: 890-2207-1 MSI Matrix: Solid	)								Client Sa Prep 1	mple ID: Type: Tot		
Analysis Batch: 24009									Prep	Batch:	23941	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	5
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1157		mg/Kg		114	70 - 130	20	20	6
Diesel Range Organics (Over	<49.9	U	998	1177		mg/Kg		118	70 - 130	20	20	7

Diesel Range Organics (Over C10-C28)	<49.9	U	998
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	128		70 - 130

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23904/1-A Matrix: Solid Analysis Batch: 24341						Client Sa	ample ID: Metho Prep Type:	
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/27/22 14:26	1
Lab Sample ID: LCS 880-23904/2-A					С	lient Sample	ID: Lab Control	Sample

#### Lab Sample ID: LCS 880-23904/2-A Matrix: Solid Analysis Patch: 24244

Analysis Batch: 24341								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	271.1		mg/Kg		108	90 _ 110	

Lab Sample ID: LCSD 880-23904/3-A Matrix: Solid Analysis Batch: 24341				Clie	nt San	ple ID:	Lab Contro Prep	ol Sampl Type: S	
Analyte	Spike Added		LCSD Qualifier	Unit	п	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	258.9		mg/Kg		104	90 - 110	5	20

#### Lab Sample ID: 880-13933-A-5-C MS Matrix: Solid

Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 24341											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	376		250	603.5		mg/Kg		91	90 - 110		

Lab Sample ID: 880-13933-A-5 Matrix: Solid Analysis Batch: 24341	-D MSD					С	lient Sa	ample IC	): Matrix Sı Prep	pike Dup Type: So	
Analysis Datch. 24341	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	376		250	617.5		mg/Kg		97	90 - 110	2	20

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Job ID: 890-2207-1

SDG: 03E1558023

Prep Type: Soluble

**Client Sample ID: Matrix Spike** 

### **QC Association Summary**

Client: Ensolum Project/Site: ROW 4 Muy Wayno

**GC VOA** 

#### Analysis Batch: 23883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2207-1	SS01	Total/NA	Solid	8021B	23940
890-2207-2	SS02	Total/NA	Solid	8021B	23940
890-2207-3	SS03	Total/NA	Solid	8021B	23940
890-2207-4	SS04	Total/NA	Solid	8021B	23940
890-2207-5	SS05	Total/NA	Solid	8021B	23940
MB 880-23898/5-A	Method Blank	Total/NA	Solid	8021B	23898
MB 880-23940/5-A	Method Blank	Total/NA	Solid	8021B	23940
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	8021B	23940
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23940
890-2207-1 MS	SS01	Total/NA	Solid	8021B	23940
890-2207-1 MSD	SS01	Total/NA	Solid	8021B	23940

#### Prep Batch: 23898

IVID 000-23940/3-A	Method Blank	Total/NA	Solid	0021B	23940	
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	8021B	23940	8
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23940	
890-2207-1 MS	SS01	Total/NA	Solid	8021B	23940	9
890-2207-1 MSD	SS01	Total/NA	Solid	8021B	23940	
 Prep Batch: 23898						10
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	44
MB 880-23898/5-A	Method Blank	Total/NA	Solid	5035		
Prep Batch: 23940						12
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	12
890-2207-1	SS01	Total/NA	Solid	5035		Γ5
890-2207-2	SS02	Total/NA	Solid	5035		
890-2207-3	5503	Total/NA	Solid	5035		114

#### Prep Batch: 23940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2207-1	SS01	Total/NA	Solid	5035	
890-2207-2	SS02	Total/NA	Solid	5035	
890-2207-3	SS03	Total/NA	Solid	5035	
890-2207-4	SS04	Total/NA	Solid	5035	
890-2207-5	SS05	Total/NA	Solid	5035	
MB 880-23940/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2207-1 MS	SS01	Total/NA	Solid	5035	
890-2207-1 MSD	SS01	Total/NA	Solid	5035	

#### Analysis Batch: 24031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2207-1	SS01	Total/NA	Solid	Total BTEX	
890-2207-2	SS02	Total/NA	Solid	Total BTEX	
890-2207-3	SS03	Total/NA	Solid	Total BTEX	
890-2207-4	SS04	Total/NA	Solid	Total BTEX	
890-2207-5	SS05	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

#### Prep Batch: 23941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2207-1	SS01	Total/NA	Solid	8015NM Prep	
890-2207-2	SS02	Total/NA	Solid	8015NM Prep	
890-2207-3	SS03	Total/NA	Solid	8015NM Prep	
890-2207-4	SS04	Total/NA	Solid	8015NM Prep	
890-2207-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-23941/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23941/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23941/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2207-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-2207-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

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### **QC Association Summary**

Client: Ensolum Project/Site: ROW 4 Muy Wayno Job ID: 890-2207-1

SDG: 03E1558023

### GC Semi VOA

### Analysis Batch: 24009

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2207-1	SS01	Total/NA	Solid	8015B NM	23941
890-2207-2	SS02	Total/NA	Solid	8015B NM	23941
890-2207-3	SS03	Total/NA	Solid	8015B NM	23941
890-2207-4	SS04	Total/NA	Solid	8015B NM	23941
890-2207-5	SS05	Total/NA	Solid	8015B NM	23941
MB 880-23941/1-A	Method Blank	Total/NA	Solid	8015B NM	23941
LCS 880-23941/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23941
LCSD 880-23941/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23941
890-2207-1 MS	SS01	Total/NA	Solid	8015B NM	23941
890-2207-1 MSD	SS01	Total/NA	Solid	8015B NM	23941

#### Analysis Batch: 24123

Lab Control Sample	TOTAI/INA	Solid		20041	
Lab Control Sample Dup	Total/NA	Solid	8015B NM	23941	8
SS01	Total/NA	Solid	8015B NM	23941	
SS01	Total/NA	Solid	8015B NM	23941	9
3					
Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
SS01	Total/NA	Solid	8015 NM		
SS02	Total/NA	Solid	8015 NM		
SS03	Total/NA	Solid	8015 NM		
SS04	Total/NA	Solid	8015 NM		
SS05	Total/NA	Solid	8015 NM		4.9
SS05	Total/NA	Solid	8015 NM		
	Lab Control Sample Dup SS01 SS01 Client Sample ID SS01 SS02 SS03 SS04	Lab Control Sample Dup Total/NA SS01 Total/NA SS01 Total/NA Client Sample ID Prep Type SS01 Total/NA SS02 Total/NA SS03 Total/NA SS04 Total/NA	Lab Control Sample DupTotal/NASolidSS01Total/NASolidSS01Total/NASolidClient Sample IDPrep TypeMatrixSS01Total/NASolidSS02Total/NASolidSS03Total/NASolidSS04Total/NASolid	Lab Control Sample DupTotal/NASolid8015B NMSS01Total/NASolid8015B NMSS01Total/NASolid8015B NMClient Sample IDPrep TypeMatrixMethodSS01Total/NASolid8015 NMSS02Total/NASolid8015 NMSS03Total/NASolid8015 NMSS04Total/NASolid8015 NM	Lab Control Sample DupTotal/NASolid8015B NM23941SS01Total/NASolid8015B NM23941S01Total/NASolid8015B NM23941Client Sample IDPrep TypeMatrixMethodPrep BatchSS01Total/NASolid8015 NM23941SS02Total/NASolid8015 NM1000000000000000000000000000000000000

### HPLC/IC

#### Leach Batch: 23904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2207-1	SS01	Soluble	Solid	DI Leach	
890-2207-2	SS02	Soluble	Solid	DI Leach	
890-2207-3	SS03	Soluble	Solid	DI Leach	
890-2207-4	SS04	Soluble	Solid	DI Leach	
890-2207-5	SS05	Soluble	Solid	DI Leach	
MB 880-23904/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23904/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23904/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-13933-A-5-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-13933-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 24341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2207-1	SS01	Soluble	Solid	300.0	23904
890-2207-2	SS02	Soluble	Solid	300.0	23904
890-2207-3	SS03	Soluble	Solid	300.0	23904
890-2207-4	SS04	Soluble	Solid	300.0	23904
890-2207-5	SS05	Soluble	Solid	300.0	23904
MB 880-23904/1-A	Method Blank	Soluble	Solid	300.0	23904
LCS 880-23904/2-A	Lab Control Sample	Soluble	Solid	300.0	23904
LCSD 880-23904/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23904
880-13933-A-5-C MS	Matrix Spike	Soluble	Solid	300.0	23904
880-13933-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	23904

Page 47 of 87

5

9

Job ID: 890-2207-1 SDG: 03E1558023

### Lab Sample ID: 890-2207-1 Matrix: Solid

Lab Sample ID: 890-2207-2

Date Collected: 04/18/22 14:05 Date Received: 04/19/22 16:26

**Client Sample ID: SS01** 

Project/Site: ROW 4 Muy Wayno

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23940	04/21/22 11:35	MR	XEN MID
Total/NA	Analysis	8021B		1			23883	04/21/22 22:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24031	04/22/22 11:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24123	04/25/22 09:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23941	04/21/22 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24009	04/23/22 00:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	23904	04/21/22 09:39	СН	XEN MID
Soluble	Analysis	300.0		50			24341	04/27/22 17:37	СН	XEN MID

### **Client Sample ID: SS02**

### Date Collected: 04/18/22 14:10

Date Received: 04/19/22 16:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23940	04/21/22 11:35	MR	XEN MID
Total/NA	Analysis	8021B		1			23883	04/21/22 22:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24031	04/22/22 11:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24123	04/25/22 09:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23941	04/21/22 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24009	04/23/22 01:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23904	04/21/22 09:39	СН	XEN MID
Soluble	Analysis	300.0		20			24341	04/27/22 17:46	СН	XEN MID

### **Client Sample ID: SS03**

### Date Collected: 04/18/22 14:15

Date Received: 04/19/22 16:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23940	04/21/22 11:35	MR	XEN MID
Total/NA	Analysis	8021B		1			23883	04/21/22 23:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24031	04/22/22 11:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24123	04/25/22 09:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23941	04/21/22 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24009	04/23/22 01:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23904	04/21/22 09:39	СН	XEN MID
Soluble	Analysis	300.0		10			24341	04/27/22 18:14	СН	XEN MID

#### **Client Sample ID: SS04** Date Collected: 04/18/22 14:20 Date Received: 04/19/22 16:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23940	04/21/22 11:35	MR	XEN MID
Total/NA	Analysis	8021B		1			23883	04/21/22 23:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24031	04/22/22 11:18	AJ	XEN MID

**Eurofins Carlsbad** 

Matrix: Solid

## Lab Sample ID: 890-2207-3

Lab Sample ID: 890-2207-4

Matrix: Solid

Matrix: Solid

Job ID: 890-2207-1 SDG: 03E1558023

# Lab Sample ID: 890-2207-4

Date Collected: 04/18/22 14:20 Date Received: 04/19/22 16:26

**Client Sample ID: SS04** 

Project/Site: ROW 4 Muy Wayno

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24123	04/25/22 09:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23941	04/21/22 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24009	04/23/22 01:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23904	04/21/22 09:39	СН	XEN MID
Soluble	Analysis	300.0		20			24341	04/27/22 18:23	СН	XEN MID

#### **Client Sample ID: SS05** Date Collected: 04/18/22 14:25

### Date Received: 04/19/22 16:26

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	23940	04/21/22 11:35	MR	XEN MID
Total/NA	Analysis	8021B		1			23883	04/22/22 00:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24031	04/22/22 11:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24123	04/25/22 09:06	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23941	04/21/22 13:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24009	04/23/22 02:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23904	04/21/22 09:39	СН	XEN MID
Soluble	Analysis	300.0		20			24341	04/27/22 18:32	СН	XEN MID

#### Laboratory References:

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

Matrix: Solid

# Matrix: Solid

Accreditation/Certification Summary

Page 50 of 87

		Accreditation/Co	ertification Summary		
Client: Ensolum Project/Site: ROW 4 Mu	uy Wayno			Job ID: 890-2207-1 SDG: 03E1558023	2
Laboratory: Eurofi		/ were covered under each acc	raditation/contification holow		
	narytes for this laboratory				
Authority Texas		Program NELAP	Identification Number T104704400-21-22	Expiration Date 06-30-22	
			ied by the governing authority. This list ma		5
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					13

Client: Ensolum Project/Site: ROW 4 Muy Wayno Job ID: 890-2207-1 SDG: 03E1558023

Nethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
lotal BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 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
3015NM Prep	Microextraction	SW846	XEN MID
01 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

Page 51 of 87

Client: Ensolum Project/Site: ROW 4 Muy Wayno Job ID: 890-2207-1 SDG: 03E1558023

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
0-2207-1	SS01	Solid	04/18/22 14:05	04/19/22 16:26	0.5	
90-2207-2	SS02	Solid	04/18/22 14:10	04/19/22 16:26	0.5	
90-2207-3	SS03	Solid	04/18/22 14:15	04/19/22 16:26	0.5	
90-2207-4	SS04	Solid	04/18/22 14:20	04/19/22 16:26	0.5	
90-2207-5	SS05	Solid	04/18/22 14:25	04/19/22 16:26	0.5	
						1

	om Page of	mmo	Brownfields RRC Superfund		PST/UST TRRP Level IV	ADaPT Cother:	Preservative Codes	None: NO DI Water: H <sub>2</sub> O	0	H <sub>3</sub> S0 4: H <sub>3</sub> NaOH: Na		NaHSO 4: NABIS	Na 25 203: NaSO 3	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments	TIK: nAP2209039217	AFE: 00, 2017. 01427,	CAP. LMP. OI					Sr Tl Sn U V Zn 5.1 / 7470 / 7471			ure) Date/Time			Revised Date: 08/75/2020 Rev. 2020.2
Work Order No:	www.xenco.com	Work Order	Program: UST/PST PRP	State of Project:	Reporting: Level II Level II	Deliverables: EDD A	QUEST							890-2207 Chain of Custody										Se Ag SiO <sub>2</sub> Na Ha: 1631 / 24		unless previously negotiated.	nature) Received by: (Signature)			
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, Wabbock, TX (806) 794-1296	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Adrian Baker	XTO Energy Inc.	- 5	Centsbud, NM 28220	Cosolum. Com	ANALYSIS REQUEST			-	(		<i>n</i>	Q 890-2207 C		214) HUL HUL	X X X				>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>			Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K sono - BRCRA Sh As Ba Be Cd Cr Co Cu Ph Mn Mo Ni Se Ag TI U	As a do be be be be be be been also be been also be been also be been and subcontractors. It assigns standard incrimed hubble client if subcontractors due to circumstance.	offins Xenco, but not analyzed. These terms will be enforced u	Date/Time Relinquished by: (Signature)	9-221626	4	6
Cha Houston, TX (28 Midland, TX (432) EL Paso, TX (915)	Hobbs, NM (575)	Bill to: (if different)	Company Name:	Address:	City, State ZIP:	kjenning a e	Around	Rush Code		day received by ived by 4:30pm	T	NW. COJ	2.2	3.8	3.6	Depth Grab/ # of Comp Cont	1 1	-			7			11' 2	refrom client company to Eurofine	or each sample submitted to Euro		- 1		
Fins Environment Testing Xenco		Kalei Tennings	Num LLC	at Ave. Suite 240	Midland. TX 79705	N	Raw 4 Muy Wayno line Turn Around	M354558023 [240utine		TAT starts the day received by the lab, if received by 4:30pm	Temp Blank: Res No Wet Ice:	Yes No Thermometer ID:	Yes No N/A Correction Factor:	Yes No N/A Temperature Reading:	Corrected Temperature:	Matrix Date Time Sampled	1-				V V 1475	The second secon		8RCR/	CITCLE (METTOOL(S) and METAL(S) TO be an any zeu inclusion in the control of the	of service. Eurofins Xenco will be lable only for the cost of samples and shall not assume any responsibility for any boxes of expenses incurrency one can not not service on the can not not any zero. A service of services previously negotiated, of Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	(Signature) Received by: (Signature)	2 4		
🐝 eurofins		Droioct Manader.	Company Name:	Address:	City, State ZIP:	Phone:	Project Name:	er:	Project Location:	Sampler's Name:	SAMPI F RECFIPT	Samples Received Intact:	Cooler Custody Seals:	Sample Custody Seals:	Total Containers:	Sample Identification	1055	5602	5035	5504	\$505		1	Total 200.7 / 6010	CITCIE (VIETNOD(S) al Notice: Signature of this docum	of service. Eurofins Xenco will of Eurofins Xenco. A minimum	Relinquished by: (Signature)	· MA .	m	5

4 5 6

14

Job Number: 890-2207-1 SDG Number: 03E1558023

List Source: Eurofins Carlsbad

### Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2207 List Number: 1 Creator: Clifton, Cloe

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

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

Job Number: 890-2207-1 SDG Number: 03E1558023

List Source: Eurofins Midland

List Creation: 04/21/22 11:26 AM

### Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2207 List Number: 2 Creator: Rodriguez, Leticia

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

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

Received by OCD: 6/17/2022 1:33:15 PM

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America

**Environment Testing** 

# ANALYTICAL REPORT

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

## Laboratory Job ID: 890-2379-1

Laboratory Sample Delivery Group: 03E1558023 Client Project/Site: ROW 3 Muy Wayno Line

### For:

eurofins 😵

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 6/10/2022 3:53:01 PM Jessica Kramer, Project Manager (432)704-5440 Jessica.Kramer@et.eurofinsus.com

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

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

Page 57 of 87

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	17
Lab Chronicle	20
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

Page 58 of 87

	Definitions/Glossary		
Client: Ensolum Project/Site: RC	-	Job ID: 890-2379-1 SDG: 03E1558023	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
S1-	Surrogate recovery exceeds control limits, low biased.		ų
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			8
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		1
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 NC	Method Quantitation Limit Not Calculated		
ND			
NEG	Not Detected at the reporting limit (or MDL or EDL if shown) Negative / Absent		
POS	Positive / Absent		
PQL	Prostitive / Present 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		
RFD	Relative Feldent Difference, a measure of the relative unifference between two points		

Eurofins Carlsbad

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

TEF

TEQ

TNTC

Job ID: 890-2379-1 SDG: 03E1558023

#### Job ID: 890-2379-1

#### Laboratory: Eurofins Carlsbad

#### Narrative

Job Narrative 890-2379-1

#### Receipt

The samples were received on 6/6/2022 9:53 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 5.4°C

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH04 (890-2379-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-27017 and analytical batch 880-26971 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### GC Semi VOA

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-26968 and analytical batch 880-26955 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### HPLC/IC

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

4

Job ID: 890-2379-1 SDG: 03E1558023

### Client Sample ID: PH01

Date Collected: 06/03/22 09:35 Date Received: 06/06/22 09:53

Sample Depth: 2

Client: Ensolum

SDG: 03E155802

#### Lab Sample ID: 890-2379-1 Matrix: Solid

	3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		06/07/22 14:58	06/08/22 06:05	
Toluene	<0.00200	U	0.00200	mg/Kg		06/07/22 14:58	06/08/22 06:05	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/07/22 14:58	06/08/22 06:05	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/07/22 14:58	06/08/22 06:05	
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/07/22 14:58	06/08/22 06:05	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/07/22 14:58	06/08/22 06:05	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	109		70 - 130			06/07/22 14:58	06/08/22 06:05	
1,4-Difluorobenzene (Surr)	98		70 - 130			06/07/22 14:58	06/08/22 06:05	
Method: Total BTEX - Total BTE								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/08/22 15:52	
Method: 8015 NM - Diesel Range			DI	1114		Durant	Amelianad	D
Analyte Total TPH		Qualifier		Unit mg/Kg	D	Prepared	Analyzed 06/08/22 10:33	Dil Fa
Method: 8015B NM - Diesel Ran Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	
Analyte		Qualifier	RL		D	· · · · · · · · · · · · · · · · · · ·		Dil Fa
Gasoline Range Organics (GRO)-C6-C10				mg/Kg		06/07/22 08:15	06/07/22 17:57	
Diesel Range Organics (Over C10-C28)	<49.9		49.9	mg/Kg		06/07/22 08:15	06/07/22 17:57	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/07/22 08:15	06/07/22 17:57	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	76		70 - 130			06/07/22 08:15	06/07/22 17:57	
p-Terphenyl	87		70 - 130			06/07/22 08:15	06/07/22 17:57	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	5340		50.4	mg/Kg			06/09/22 21:14	10
lient Sample ID: PH01						Lab San	nple ID: 890-	2379-2
ate Collected: 06/03/22 09:55 ate Received: 06/06/22 09:53							Matri	x: Soli

Analyte	Pocult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Kesuit	Quaimer				Fiepaieu	Analyzeu	Dirrac
Benzene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 06:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 06:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 06:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/07/22 14:58	06/08/22 06:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 06:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/07/22 14:58	06/08/22 06:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			06/07/22 14:58	06/08/22 06:25	1

### **Client Sample Results**

Job ID: 890-2379-1 SDG: 03E1558023

# Lab Sample ID: 890-2379-2

Matrix: Solid

5

**Client Sample ID: PH01** Date Collected: 06/03/22 09:55 Date Received: 06/06/22 09:53

Sample Depth: 4

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130			06/07/22 14:58	06/08/22 06:25	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/08/22 15:52	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/08/22 10:33	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		06/07/22 08:15	06/07/22 18:18	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		06/07/22 08:15	06/07/22 18:18	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/07/22 08:15	06/07/22 18:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			06/07/22 08:15	06/07/22 18:18	1
o-Terphenyl	91		70 - 130			06/07/22 08:15	06/07/22 18:18	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1670		24.9	mg/Kg			06/09/22 21:37	5
lient Sample ID: PH02						Lab San	nple ID: 890-	2379-3
ate Collected: 06/03/22 10:30							Matri	x: Solid

Method: 8021B - Volatile Orga	inic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 06:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 06:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 06:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/07/22 14:58	06/08/22 06:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 06:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/07/22 14:58	06/08/22 06:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			06/07/22 14:58	06/08/22 06:46	1
1,4-Difluorobenzene (Surr)	100		70 - 130			06/07/22 14:58	06/08/22 06:46	1
- Method: Total BTEX - Total B1	<b>FEX Calculation</b>							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/08/22 15:52	1
_ Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/08/22 10:33	1

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

%Recovery Qualifier

80

93

478

Result Qualifier

RL

49.9

49.9

49.9

RL

4.97

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

Prepared

06/07/22 08:15

06/07/22 08:15

06/07/22 08:15

Prepared

06/07/22 08:15

06/07/22 08:15

Prepared

Job ID: 890-2379-1 SDG: 03E1558023

### Client Sample ID: PH02

Client: Ensolum

Sample Depth: 1

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

**Client Sample ID: PH02** 

Date Collected: 06/03/22 12:25

Date Received: 06/06/22 09:53

Analyte

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

Chloride

Sample Depth: 4

Date Collected: 06/03/22 10:30 Date Received: 06/06/22 09:53

## Lab Sample ID: 890-2379-3

Analyzed

06/07/22 18:40

06/07/22 18:40

06/07/22 18:40

Analyzed

06/07/22 18:40

06/07/22 18:40

Analyzed

06/10/22 11:36

Lab Sample ID: 890-2379-4

Matrix: Solid

Dil Fac

1

1

1

1

Dil Fac

Dil Fac

Matrix: Solid

Method: 8021B - Volatile Organic	Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/07/22 14:58	06/08/22 07:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/07/22 14:58	06/08/22 07:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/07/22 14:58	06/08/22 07:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/07/22 14:58	06/08/22 07:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/07/22 14:58	06/08/22 07:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/07/22 14:58	06/08/22 07:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			06/07/22 14:58	06/08/22 07:06	1
1,4-Difluorobenzene (Surr)	100		70 - 130			06/07/22 14:58	06/08/22 07:06	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			06/08/22 15:52	1
Method: 8015 NM - Diesel Range (	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/08/22 10:33	1
 Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)						
Analyte	- ·	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		06/07/22 08:15	06/07/22 19:02	1
(GRO)-C6-C10								
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/07/22 08:15	06/07/22 19:02	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/07/22 08:15	06/07/22 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			06/07/22 08:15	06/07/22 19:02	1
o-Terphenyl	87		70 - 130			06/07/22 08:15	06/07/22 19:02	1

		Clien	t Sample Re	sults				
Client: Ensolum							Job ID: 890	
Project/Site: ROW 3 Muy Wayno Li	ine						SDG: 03E1	155802
Client Sample ID: PH02						Lab San	nple ID: 890-	2379-
Date Collected: 06/03/22 12:25							-	x: Soli
Date Received: 06/06/22 09:53								
Sample Depth: 4								
_ Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	97.1		4.97	mg/Kg			06/09/22 21:53	
Client Sample ID: PH03						l ah Sar	nple ID: 890-	2370-
Date Collected: 06/03/22 10:50							-	x: Soli
Date Received: 06/06/22 09:53							Watri	x. 501
Sample Depth: 1								
-								
Method: 8021B - Volatile Organic Analyte		GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<		0.00200	0mt mg/Kg		06/07/22 14:58	06/08/22 07:27	
Toluene	<0.00200		0.00200	mg/Kg		06/07/22 14:58	06/08/22 07:27	
Ethylbenzene	<0.00200		0.00200	mg/Kg		06/07/22 14:58	06/08/22 07:27	
m-Xylene & p-Xylene	<0.00401		0.00401	mg/Kg		06/07/22 14:58	06/08/22 07:27	
o-Xylene	<0.00200		0.00200	mg/Kg		06/07/22 14:58	06/08/22 07:27	
Xylenes, Total	<0.00401		0.00401	mg/Kg		06/07/22 14:58	06/08/22 07:27	
Surrogate	%Recovery	Qualifiar	Limits			Branarad	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		Quaimer	70 - 130			Prepared 06/07/22 14:58	06/08/22 07:27	
1,4-Difluorobenzene (Surr)	95		70 - 130			06/07/22 14:58	06/08/22 07:27	
	33		70 - 130			00/07/22 14.00	00/00/22 07.27	
Method: Total BTEX - Total BTEX								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			06/08/22 15:52	
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			06/08/22 10:33	
- Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0		50.0	mg/Kg		06/07/22 08:15	06/07/22 19:24	
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		06/07/22 08:15	06/07/22 19:24	
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/07/22 08:15	06/07/22 19:24	
						<b>_</b> .		=
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	84		70 - 130			06/07/22 08:15	06/07/22 19:24	
o-Terphenyl	89		70 - 130			06/07/22 08:15	06/07/22 19:24	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	3020		25.0	mg/Kg			06/09/22 22:01	

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00201 U

RL

0.00201

Unit

mg/Kg

D

Prepared

06/07/22 14:58

Job ID: 890-2379-1 SDG: 03E1558023

### **Client Sample ID: PH03**

Date Collected: 06/03/22 11:05 Date Received: 06/06/22 09:53

Sample Depth: 4

Analyte

Benzene

Client: Ensolum

Lab Sample ID: 890-2379-6

Analyzed

06/08/22 07:47

Matrix: Solid

Dil Fac

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	3

Delizene	S0.00201	0	0.00201	ing/itg		00/01/22 14.00	00/00/22 01.41	
Toluene	<0.00201	U	0.00201	mg/Kg		06/07/22 14:58	06/08/22 07:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/07/22 14:58	06/08/22 07:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/07/22 14:58	06/08/22 07:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/07/22 14:58	06/08/22 07:47	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/07/22 14:58	06/08/22 07:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			06/07/22 14:58	06/08/22 07:47	1
1,4-Difluorobenzene (Surr)	101		70 - 130			06/07/22 14:58	06/08/22 07:47	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/08/22 15:52	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/08/22 10:33	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/07/22 08:15	06/07/22 19:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/07/22 08:15	06/07/22 19:45	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/07/22 08:15	06/07/22 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			06/07/22 08:15	06/07/22 19:45	1
o-Terphenyl	92		70 - 130			06/07/22 08:15	06/07/22 19:45	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		5.02	mg/Kg			06/09/22 22:09	1
Client Sample ID: PH04						Lab San	nple ID: 890-	2379-7
Date Collected: 06/03/22 12:30							Matri	x: Solid
Date Received: 06/06/22 09:53								
Sample Depth: 1								
Method: 8021B - Volatile Organic	Compounds	(GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 08:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 08:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 08:08	1

Ethylbenzene < 0.00199 U 0.00199 mg/Kg 06/07/22 14:58 06/08/22 08:08 m-Xylene & p-Xylene <0.00398 U 0.00398 mg/Kg 06/07/22 14:58 06/08/22 08:08 <0.00199 U 0.00199 06/07/22 14:58 06/08/22 08:08 o-Xylene mg/Kg Xylenes, Total <0.00398 U 0.00398 06/07/22 14:58 06/08/22 08:08 mg/Kg %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 4-Bromofluorobenzene (Surr) 70 - 130 06/07/22 14:58 06/08/22 08:08 112

**Eurofins Carlsbad** 

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### **Client Sample Results**

Job ID: 890-2379-1 SDG: 03E1558023

# Lab Sample ID: 890-2379-7

Matrix: Solid

5

Date Collected: 06/03/22 12:30 Date Received: 06/06/22 09:53

**Client Sample ID: PH04** 

Sample Depth: 1

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	99		70 - 130			06/07/22 14:58	06/08/22 08:08	
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/08/22 15:52	
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			06/08/22 10:33	
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/07/22 08:15	06/07/22 20:07	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/07/22 08:15	06/07/22 20:07	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/07/22 08:15	06/07/22 20:07	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	83		70 - 130			06/07/22 08:15	06/07/22 20:07	
o-Terphenyl	91		70 - 130			06/07/22 08:15	06/07/22 20:07	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1860		25.0	mg/Kg			06/09/22 22:17	
lient Sample ID: PH04						Lab San	nple ID: 890-	2379-8
ate Collected: 06/03/22 12:45							Matri	ix: Soli
ate Received: 06/06/22 09:53								
ample Depth: 4								

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 08:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 08:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 08:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/07/22 14:58	06/08/22 08:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/07/22 14:58	06/08/22 08:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/07/22 14:58	06/08/22 08:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130			06/07/22 14:58	06/08/22 08:52	1
1,4-Difluorobenzene (Surr)	60	S1-	70 - 130			06/07/22 14:58	06/08/22 08:52	1
Method: Total BTEX - Total B	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/08/22 15:52	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	mg/Kg			06/08/22 10:33	

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

84

92

35.3

Result Qualifier

Qualifier

%Recovery

Dil Fac

1

1

1

1

1

Dil Fac

Dil Fac

### **Client Sample Results**

RL

49.9

49.9

49.9

RL

4.95

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

Prepared

06/07/22 08:15

06/07/22 08:15

06/07/22 08:15

Prepared

06/07/22 08:15

06/07/22 08:15

Prepared

Job ID: 890-2379-1 SDG: 03E1558023

### **Client Sample ID: PH04**

Client: Ensolum

Sample Depth: 4

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

Date Collected: 06/03/22 12:45 Date Received: 06/06/22 09:53

## Lab Sample ID: 890-2379-8

Analyzed

06/07/22 20:28

06/07/22 20:28

06/07/22 20:28

Analyzed

06/07/22 20:28

06/07/22 20:28

Analyzed

06/10/22 07:56

Matrix: Solid

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	)	

Client: Ensolum Project/Site: ROW 3 Muy Wayno Line

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

-			
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2374-A-5-C MS	Matrix Spike	108	100
890-2374-A-5-D MSD	Matrix Spike Duplicate	110	100
890-2379-1	PH01	109	98
890-2379-2	PH01	110	99
890-2379-3	PH02	114	100
890-2379-4	PH02	111	100
890-2379-5	PH03	116	95
890-2379-6	PH03	115	101
890-2379-7	PH04	112	99
890-2379-8	PH04	69 S1-	60 S1-
LCS 880-27017/1-A	Lab Control Sample	108	99
LCSD 880-27017/2-A	Lab Control Sample Dup	108	97
MB 880-26988/5-A	Method Blank	98	100
MB 880-27017/5-A	Method Blank	99	95
Surrogate Legend			
BFB = 4-Bromofluoroben	zene (Surr)		
DFBZ = 1,4-Difluorobenz	ene (Surr)		

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Li
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2376-A-101-B MS	Matrix Spike	86	84	
390-2376-A-101-C MSD	Matrix Spike Duplicate	84	80	
390-2379-1	PH01	76	87	
390-2379-2	PH01	81	91	
390-2379-3	PH02	80	93	
90-2379-4	PH02	80	87	
90-2379-5	PH03	84	89	
90-2379-6	PH03	84	92	
90-2379-7	PH04	83	91	
90-2379-8	PH04	84	92	
.CS 880-26968/2-A	Lab Control Sample	85	86	
CSD 880-26968/3-A	Lab Control Sample Dup	75	74	
/IB 880-26968/1-A	Method Blank	72	86	

Surrogate Legend 1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Page 67 of 87

Job ID: 890-2379-1

SDG: 03E1558023

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid       MB       MB         Analysis Batch: 26971       Result       Qualifier         Benzene       <0.00200       U         Toluene       <0.00200       U         mrxylene & p-Xylene       <0.00200       U         m-Xylene & p-Xylene       <0.00200       U         xylenes, Total       <0.00200       U         Surrogate       %Recovery       Qualifier         4-Bromofluorobenzene (Surr)       98          1,4-Difluorobenzene (Surr)       100       U         Lab Sample ID: MB 880-27017/5-A       Matrix: Solid       Analysis Batch: 26971         Matrix: Solid       Analysis Batch: 26971       WB       MB         Analyte       Result       Qualifier         Benzene       <0.00200       U       U         Toluene       <0.00200       U       U         vylene & p-Xylene       <0.00200       U       U         xylenes, Total       <0.00200       U       U         xylene & p-Xylene       <0.00200       U       U         xylene & p-Xylene       <0.00200       U       U         xylenes, Total       <0.00400       U       U         Lab Sampl	R 0.0020 0.0020 0.0040 0.0040 0.0040 <u>Limits</u> 70 - 130 70 - 130 70 - 130 R 0.0020 0.0020 0.0020 0.0020		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	3 3 3 3	<u>D</u>	Prepared 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57	Prep Type: 1 Prep Batch 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43	
MB         Result         Qualifier           Benzene         <0.00200         U           Toluene         <0.00200         U           Ethylbenzene         <0.00200         U           m-Xylene & p-Xylene         <0.00200         U           o-Xylene         <0.00200         U           Xylenes, Total         <0.00400         U           o-Xylene         <0.00400         U           Xylenes, Total         <0.00400         U           MB         MB         MB           Surrogate         %Recovery         Qualifier           4-Bromofluorobenzene (Surr)         98         I           1,4-Difluorobenzene (Surr)         100         IMB           Analyts         Result         Qualifier           Benzene         <0.00200         U           Toluene         <0.00200         U           Ethylbenzene         <0.00200         U           m-Xylene & p-Xylene         <0.00200         U           xylenes, Total         <0.00200         U           Xylenes, Total         <0.00200         U           Xylenes, Total         <0.00400         U           xylenes, Total         <0.00400	<ul> <li>0.0020</li> <li>0.0020</li> <li>0.0040</li> <li>0.0020</li> <li>0.0040</li> <li>0.0020</li> <li>0.0040</li> </ul> Limits           70 - 130           70 - 130           70 - 0.0020           0.0020		mg/Kg mg/Kg mg/Kg mg/Kg	3 3 3 3	<u>D</u>	06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57	Analyzed 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43	<u>Dil Fac</u> 1 1 1 1 1 1 1 <b>Dil Fac</b> 1
Analyte         Result         Qualifier           Benzene         <0.00200         U           Toluene         <0.00200         U           Ethylbenzene         <0.00200         U           m-Xylene & p-Xylene         <0.00200         U           o-Xylene         <0.00200         U           Xylenes, Total         <0.00200         U           Xylenes, Total         <0.00400         U           Surrogate         %Recovery         Qualifier           4-Bromofluorobenzene (Surr)         98            1,4-Difluorobenzene (Surr)         98            1,4-Difluorobenzene (Surr)         98            Analyte         Result         Qualifier           Benzene         <0.00200         U           Toluene         <0.00200         U           Ethylbenzene         <0.00200         U           m-Xylene & p-Xylene         <0.00200         U           Xylenes, Total         <0.00200         U           Xylenes, Total         <0.00400         U           Xylenes, Total         <0.00400         U           Xylenes, Total         <0.00400         U           Xylenes, Total <th><ul> <li>0.0020</li> <li>0.0020</li> <li>0.0040</li> <li>0.0020</li> <li>0.0040</li> <li>0.0020</li> <li>0.0040</li> </ul> Limits           70 - 130           70 - 130           70 - 0.0020           0.0020</th> <th></th> <th>mg/Kg mg/Kg mg/Kg mg/Kg</th> <th>3 3 3 3</th> <th><u>D</u></th> <th>06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57</th> <th>06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43</th> <th>1 1 1 1 1 1 1 <b>Dil Fac</b> 1</th>	<ul> <li>0.0020</li> <li>0.0020</li> <li>0.0040</li> <li>0.0020</li> <li>0.0040</li> <li>0.0020</li> <li>0.0040</li> </ul> Limits           70 - 130           70 - 130           70 - 0.0020           0.0020		mg/Kg mg/Kg mg/Kg mg/Kg	3 3 3 3	<u>D</u>	06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57	06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43	1 1 1 1 1 1 1 <b>Dil Fac</b> 1
Benzene         <0.00200         U           Toluene         <0.00200         U           Ethylbenzene         <0.00200         U           m-Xylene & p-Xylene         <0.00200         U           xylenes, Total         <0.00200         U           Xylenes, Total         <0.00400         U           Surrogate         %Recovery         Qualifier           4-Bromofluorobenzene (Surr)         98         (MB           1.4-Difluorobenzene (Surr)         100         U           Lab Sample ID: MB 880-27017/5-A         MB         MB           Analyte         Result         Qualifier           Benzene         <0.00200         U           Toluene         <0.00200         U           Ethylbenzene         <0.00200         U           m-Xylene & p-Xylene         <0.00200         U           vylenes, Total         <0.00200         U           Xylenes, Total         <0.00200         U           Surrogate         %Recovery         Qualifier           4-Bromofluorobenzene (Surr)         99         1,4-Difluorobenzene (Surr)         99           1,4-Difluorobenzene (Surr)         99         1         4-Bromofluorobenzene (Surr)         99 <th><ul> <li>0.0020</li> <li>0.0020</li> <li>0.0040</li> <li>0.0020</li> <li>0.0040</li> <li>0.0020</li> <li>0.0040</li> </ul> Limits           70 - 130           70 - 130           70 - 0.0020           0.0020</th> <th></th> <th>mg/Kg mg/Kg mg/Kg mg/Kg</th> <th>3 3 3 3</th> <th><u>D</u></th> <th>06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57</th> <th>06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43</th> <th>1 1 1 1 1 1 1 1 <b>Dil Fac</b> 1</th>	<ul> <li>0.0020</li> <li>0.0020</li> <li>0.0040</li> <li>0.0020</li> <li>0.0040</li> <li>0.0020</li> <li>0.0040</li> </ul> Limits           70 - 130           70 - 130           70 - 0.0020           0.0020		mg/Kg mg/Kg mg/Kg mg/Kg	3 3 3 3	<u>D</u>	06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57	06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43	1 1 1 1 1 1 1 1 <b>Dil Fac</b> 1
Toluene       <0.00200       U         Ethylbenzene       <0.00200       U         m-Xylene & p-Xylene       <0.00400       U         o-Xylene       <0.00400       U         Xylenes, Total       <0.00400       U         Xylenes, Total       <0.00400       U         MB       MB         Surrogate       %Recovery       Qualifier         4-Bromofiluorobenzene (Surr)       100       100         Lab Sample ID: MB 880-27017/5-A       Matrix: Solid       Analyte         Analyte       Result       Qualifier         Benzene       <0.00200       U         Toluene       <0.00200       U         c.Xylene & p-Xylene       <0.00200       U         xylenes, Total       <0.00200       U         m-Xylene & p-Xylene       <0.00200       U         xylenes, Total       <0.00400       U         Xylenes, Total       <0.00400       U         Surrogate       %Recovery       Qualifier         4-Bromofiluorobenzene (Surr)       99       1         1,4-Difluorobenzene (Surr)       99       1         1,4-Difluorobenzene (Surr)       99       1         Lab Sample ID: LCS	0.0020 0.0040 0.0020 0.0040 <u>Limits</u> 70 - 130 70 - 130 70 - 130 0.0020 0.0020	0 0 0 0 0 0	mg/Kg mg/Kg mg/Kg mg/Kg	3 3 3 3	_	06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57	06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43	1 1 1 1 <b>Dil Fac</b> 1
Ethylbenzene       <0.00200	0.0020 0.0040 0.0040 <u>Limits</u> 70 - 130 70 - 130 70 - 130 0.0020 0.0020	0 0 0 0 -	mg/Kg mg/Kg mg/Kg	3 3 3 3		06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 06/07/22 08:57	06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 06/07/22 12:43	1 1 1 1 1 <b>Dil Fac</b> 1
m-Xylene & p-Xylene       <0.00400	0.0040 0.0020 0.0040 <u>Limits</u> 70 - 130 70 - 130 70 - 130 8 0.00200 0.00200	L	mg/Kg mg/Kg mg/Kg	) ]		06/07/22 08:57 06/07/22 08:57 06/07/22 08:57 <b>Prepared</b> 06/07/22 08:57 06/07/22 08:57	06/07/22 12:43 06/07/22 12:43 06/07/22 12:43 <b>Analyzed</b> 06/07/22 12:43 06/07/22 12:43	1 1 
o-Xylene <0.00200 U Xylenes, Total <0.00400 U <b>MB MB</b> <b>Surrogate</b> < <u>%Recovery</u> <b>Qualifier</b> 4-Bromofluorobenzene (Surr) 98 1,4-Difluorobenzene (Surr) 100 Lab Sample ID: MB 880-27017/5-A Matrix: Solid Analyte Result Qualifier Benzene <0.00200 U Toluene <0.00200 U Ethylbenzene <0.00200 U m-Xylene & p-Xylene <0.00200 U Xylenes, Total <0.00400 U <b>MB MB</b> <b>Surrogate</b> < <u>0.00200</u> U <b>MB MB</b> <b>Surrogate</b> < <u>0.00200</u> U 1,4-Difluorobenzene (Surr) 99 1,4-Difluorobenzene (Surr) 99 1,4-Difluorobenzene (Surr) 95 Lab Sample ID: LCS 880-27017/1-A Matrix: Solid Analyte Benzene Toluene Ethylbenzene Toluene Ethylbenzene (Surr) 95 Lab Sample ID: LCS 880-27017/1-A Matrix: Solid Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene Surrogate MB (MB) <b>MB MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b> <b>MB</b>	0.0020 0.0040 	0 0 - <u>1</u>	mg/Kg mg/Kg	]		06/07/22 08:57 06/07/22 08:57 <b>Prepared</b> 06/07/22 08:57 06/07/22 08:57	06/07/22 12:43 06/07/22 12:43 Analyzed 06/07/22 12:43 06/07/22 12:43	1 1 
Xylenes, Total       <0.00400	0.0040 	0  0	mg/Kg			06/07/22 08:57 <b>Prepared</b> 06/07/22 08:57 06/07/22 08:57	06/07/22 12:43 Analyzed 06/07/22 12:43 06/07/22 12:43	Dil Fac
MBMBSurrogate%RecoveryQualifier4-Bromofiluorobenzene (Surr)100981,4-Difluorobenzene (Surr)100100Lab Sample ID: MB 880-27017/5-AMatrix: SolidAnalysis Batch: 26971MBMBAnalyteResultQualifierBenzene<0.00200	<u>Limits</u> 70 - 130 70 - 130 .0020 0.0020 0.0020		Unit	1		<b>Prepared</b> 06/07/22 08:57 06/07/22 08:57	Analyzed 06/07/22 12:43 06/07/22 12:43	Dil Fac
Surrogate%RecoveryQualifier4-Bromofluorobenzene (Surr)1001,4-Difluorobenzene (Surr)100Lab Sample ID: MB 880-27017/5-A Matrix: Solid Analysis Batch: 26971MBMatrix: Solid Analysis Batch: 26971MBMBResult QualifierBenzene<0.00200	70 - 130 70 - 130 70 - 130 <b>R</b> 0.0020 0.0020	0				06/07/22 08:57 06/07/22 08:57	06/07/22 12:43 06/07/22 12:43	1
4-Bromofluorobenzene (Surr)       98         1,4-Difluorobenzene (Surr)       100         Lab Sample ID: MB 880-27017/5-A       Matrix: Solid         Analysis Batch: 26971       MB       MB         Analyte       Result       Qualifier         Benzene       <0.00200	70 - 130 70 - 130 70 - 130 <b>R</b> 0.0020 0.0020	0				06/07/22 08:57 06/07/22 08:57	06/07/22 12:43 06/07/22 12:43	1
1,4-Difluorobenzene (Surr)       100         Lab Sample ID: MB 880-27017/5-A       Matrix: Solid         Analysis Batch: 26971       MB       MB         Analyte       Result       Qualifier         Benzene       <0.00200	70 - 130 	0				06/07/22 08:57	06/07/22 12:43	
Lab Sample ID: MB 880-27017/5-A Matrix: Solid Analysis Batch: 26971 MB MB Analyte Result Qualifier Benzene <olored u<br="">Toluene <olored u<br="">m-Xylene &amp; p-Xylene <olored u<br="">Xylenes, Total <olored u<br="">MB MB Surrogate <body>          MB         MB           Surrogate  4-Bromofluorobenzene (Surr)         99 1,4-Difluorobenzene (Surr)         99 1,4-Difluorobenzene (Surr)         99 1,4-Difluorobenzene (Surr)         99 1,4-Difluorobenzene (Surr)         95           Lab Sample ID: LCS 880-27017/1-A Matrix: Solid Analysis Batch: 26971         Kecovery         Valifier           Analyte Benzene Toluene Ethylbenzene m-Xylene &amp; p-Xylene o-Xylene         LCS         LCS</br></body></olored></olored></olored></olored></olored></olored></olored></olored></olored></olored>	<b>R</b> 0.0020 0.0020	0						1
Matrix: Solid         Analysis Batch: 26971         MB       MB         Analyte       Result       Qualifier         Benzene       <0.00200	0.0020	0				Client Sa		
Matrix: Solid         Analysis Batch: 26971         MB       MB         Analyte       Result       Qualifier         Benzene       <0.00200	0.0020	0				Chefit Sa		d Blonk
Analysis Batch: 26971          MB       MB         Analyte       Result       Qualifier         Benzene       <0.00200	0.0020	0					ample ID: Metho	
MBMBAnalyteResultQualifierBenzene<0.00200	0.0020	0					Prep Type: 1	
AnalyteResultQualifierBenzene<0.00200	0.0020	0					Prep Batch	1: 2/01/
Benzene       <0.00200	0.0020	0			_	- ·		
Toluene       <0.00200	0.0020		mg/Kg		<u>D</u>	Prepared	Analyzed	Dil Fac
Ethylbenzene       <0.00200		0				06/07/22 14:58	06/08/22 00:22	1
m-Xylene & p-Xylene o-Xylene 	0.0020	-	mg/Kg			06/07/22 14:58	06/08/22 00:22	1
o-Xylene <0.00200 U Xylenes, Total <0.00400 U MB MB Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 99 1,4-Difluorobenzene (Surr) 95 Lab Sample ID: LCS 880-27017/1-A Matrix: Solid Analysis Batch: 26971 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene LCS LCS Surrogate %Recovery Qualifier			mg/Kg			06/07/22 14:58	06/08/22 00:22	1
Xylenes, Total       <0.00400	0.0040	0	mg/Ko	1		06/07/22 14:58	06/08/22 00:22	1
MB       MB         Surrogate       %Recovery       Qualifier         4-Bromofluorobenzene (Surr)       99       1,4-Difluorobenzene (Surr)       95         1,4-Difluorobenzene (Surr)       95       5       5         Lab Sample ID: LCS 880-27017/1-A       Matrix: Solid       5       5         Analysis Batch: 26971       5       5       5         Analyte       5       5       5       5         Benzene       5       5       5       5         Matrix: Solid       5       5       5       5       5         Surrogate       %Recovery       Qualifier       5	0.0020	0	mg/Kę	9		06/07/22 14:58	06/08/22 00:22	1
Surrogate     %Recovery     Qualifier       4-Bromofluorobenzene (Surr)     99       1,4-Difluorobenzene (Surr)     95       Lab Sample ID: LCS 880-27017/1-A       Matrix: Solid       Analysis Batch: 26971       Analyte       Benzene       Toluene       Ethylbenzene       m-Xylene & p-Xylene       o-Xylene       LCS     LCS       Surrogate     %Recovery       Qualifier	0.0040	0	mg/Kg	1		06/07/22 14:58	06/08/22 00:22	1
4-Bromofluorobenzene (Surr)       99         1,4-Difluorobenzene (Surr)       95         Lab Sample ID: LCS 880-27017/1-A         Matrix: Solid         Analysis Batch: 26971         Analyte         Benzene         Toluene         Ethylbenzene         m-Xylene & p-Xylene         o-Xylene         LCS       LCS         Surrogate       %Recovery								
1,4-Difluorobenzene (Surr)       95         Lab Sample ID: LCS 880-27017/1-A         Matrix: Solid         Analysis Batch: 26971         Analyte         Benzene         Toluene         Ethylbenzene         m-Xylene & p-Xylene         o-Xylene         LCS       LCS         Surrogate       %Recovery	Limits	_				Prepared	Analyzed	Dil Fac
Lab Sample ID: LCS 880-27017/1-A         Matrix: Solid         Analysis Batch: 26971         Analyte         Benzene         Toluene         Ethylbenzene         m-Xylene & p-Xylene         o-Xylene         LCS       LCS         Surrogate       %Recovery       Qualifier	70 - 130					06/07/22 14:58	06/08/22 00:22	1
Matrix: Solid         Analysis Batch: 26971         Analyte         Benzene         Toluene         Ethylbenzene         m-Xylene & p-Xylene         o-Xylene         LCS       LCS         Surrogate       %Recovery       Qualifier	70 - 130					06/07/22 14:58	06/08/22 00:22	1
Analysis Batch: 26971  Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene LCS LCS Surrogate %Recovery Qualifier					С	lient Sample	ID: Lab Control	Sample
Analyte							Prep Type: 1	Fotal/NA
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <i>LCS LCS</i> Surrogate %Recovery Qualifier							Prep Batch	n: 27017
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <i>LCS LCS</i> Surrogate %Recovery Qualifier	Spike	LCS	LCS				%Rec	
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <u>LCS</u> <u>LCS</u> <u>Surrogate</u> <u>%Recovery</u> <u>Qualifier</u>	Added	Result	Qualifier	Unit		D %Rec	Limits	
Ethylbenzene m-Xylene & p-Xylene o-Xylene <u>LCS</u> LCS Surrogate %Recovery Qualifier	0.100	0.09392		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene o-Xylene LCS LCS Surrogate %Recovery Qualifier	0.100	0.09786		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene o-Xylene LCS LCS Surrogate %Recovery Qualifier	0.100	0.09108		mg/Kg		91	70 - 130	
o-Xylene LCS LCS Surrogate %Recovery Qualifier	0.200	0.2075		mg/Kg		104	70 - 130	
Surrogate %Recovery Qualifier	0.100	0.1041		mg/Kg		104	70 - 130	
Surrogate %Recovery Qualifier								
	Limits							
1,4-Difluorobenzene (Surr) 99	70 - 130							
Lab Sample ID: LCSD 880-27017/2-A	70 <sub>-</sub> 130 70 - 130			<b>C</b> !!	ont	Sample ID: L	ab Control Sam	
					ent	Sample ID. L		
Matrix: Solid							Prep Type: 1	
Analysis Batch: 26971							Prep Batch	h: 27017 RPD
Analyte		LCSD	1005				%Rec	

Eurofins Carlsbad

12

Page 68 of 87

Job ID: 890-2379-1

SDG: 03E1558023

Benzene

0.08291

mg/Kg

83

70 - 130

0.100

Client: Ensolum Project/Site: ROW 3 Muy Wayno Line Job ID: 890-2379-1

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

Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 26971									Prep	Batch:	27017
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Toluene			0.100	0.09423		mg/Kg		94	70 - 130	4	3
Ethylbenzene			0.100	0.08889		mg/Kg		89	70 - 130	2	3
m-Xylene & p-Xylene			0.200	0.2054		mg/Kg		103	70 - 130	1	3
o-Xylene			0.100	0.1029		mg/Kg		103	70 - 130	1	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	108		70 _ 130								
1,4-Difluorobenzene (Surr)	97		70 <sub>-</sub> 130 70 <sub>-</sub> 130					Client	Sample ID	: Matrix	Spik
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2374-A- Matrix: Solid	97							Client	Prep T	: Matrix ype: To Batch:	tal/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2374-A- Matrix: Solid	97 5-C MS	Sample		MS	MS			Client	Prep T	ype: To	tal/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2374-A- Matrix: Solid Analysis Batch: 26971	97 5-C MS Sample	Sample Qualifier	70 - 130		MS Qualifier	Unit	D	Client %Rec	· Prep T Prep	ype: To	tal/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2374-A- Matrix: Solid Analysis Batch: 26971 Analyte	97 5-C MS Sample Result	•	70 - 130 Spike		Qualifier	- <mark>Unit</mark> mg/Kg	D		Prep T Prep %Rec	ype: To	tal/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2374-A- Matrix: Solid Analysis Batch: 26971 Analyte Benzene	97 5-C MS Sample Result	Qualifier U F1	70 - 130 Spike Added	Result	Qualifier		<u> </u>	%Rec	Prep T Prep %Rec Limits	ype: To	tal/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2374-A- Matrix: Solid Analysis Batch: 26971 Analyte Benzene Toluene	97 5-C MS Sample <u>Result</u> <0.00201	Qualifier U F1 U	70 - 130 Spike Added 0.100	<b>Result</b> 0.05763	Qualifier	mg/Kg	<u>D</u>	<b>%Rec</b>	Prep T Prep %Rec Limits 70 - 130	ype: To	tal/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2374-A- Matrix: Solid Analysis Batch: 26971 Analyte Benzene Toluene Ethylbenzene	97 5-C MS Sample Result <0.00201 <0.00201	Qualifier U F1 U U	70 - 130 Spike Added 0.100 0.100	<b>Result</b> 0.05763 0.07360	Qualifier	mg/Kg mg/Kg	<u> </u>	<b>%Rec</b> 58 73	Prep 1 Prep %Rec Limits 70 - 130 70 - 130	ype: To	tal/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2374-A- Matrix: Solid Analysis Batch: 26971 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	97 5-C MS Sample Result <0.00201 <0.00201 <0.00201	Qualifier U F1 U U U	70 - 130 Spike Added 0.100 0.100 0.100	Result 0.05763 0.07360 0.07003	Qualifier	mg/Kg mg/Kg mg/Kg	D	%Rec 58 73 70	Prep 1 Prep %Rec Limits 70 - 130 70 - 130 70 - 130	ype: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2374-A- Matrix: Solid Analysis Batch: 26971 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	97 5-C MS Sample Result <0.00201 <0.00201 <0.00201 <0.00201 <0.00201	Qualifier U F1 U U U	70 - 130 Spike Added 0.100 0.100 0.100 0.200	Result 0.05763 0.07360 0.07003 0.1634	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 58 73 70 82	Prep T           Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	ype: To	tal/NA

### Lab Sample ID: 890-2374-A-5-D MSD Matrix: Solid

#### Analysis Batch: 26971

1,4-Difluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 26971									Prep	Batch:	27017
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0990	0.07694		mg/Kg		78	70 - 130	29	35
Toluene	<0.00201	U	0.0990	0.08291		mg/Kg		84	70 - 130	12	35
Ethylbenzene	<0.00201	U	0.0990	0.07812		mg/Kg		79	70 - 130	11	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1796		mg/Kg		91	70 - 130	9	35
o-Xylene	<0.00201	U	0.0990	0.09055		mg/Kg		91	70 - 130	8	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	110		70 - 130								

70 - 130

70 - 130

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

100

100

Lab Sample ID: MB 880-26968/1-A Matrix: Solid Analysis Batch: 26955	мв	МВ				Client Sa	mple ID: Metho Prep Type: <sup>-</sup> Prep Batcl	Total/NA
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/07/22 08:15	06/07/22 10:51	1

Eurofins Carlsbad

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Job ID: 890-2379-1 SDG: 03E1558023

_ab Sample ID: MB 880-26968/1-4	4										Client Sa	ample ID:		
Matrix: Solid													Type: To	
Analysis Batch: 26955												Prep	Batch:	26968
	_	MB							_	_	_		_	
Analyte			Qualifier		RL		Unit		D		repared	Analyz		Dil Fac
Diesel Range Organics (Over C10-C28)	<	\$0.0	U		50.0		mg/Kg	]		06/0	7/22 08:15	06/07/22	10:51	1
OII Range Organics (Over C28-C36)	<	50.0	U		50.0		mg/Kg	1		06/0	7/22 08:15	06/07/22	10.51	1
		00.0	0		0010			,		00,0	.,	00/01/22		•
			МВ											
Surrogate	%Reco		Qualifier	Limit							repared	Analyz		Dil Fac
1-Chlorooctane		72		70 - 1							7/22 08:15			1
o-Terphenyl		86		70 _ 1	30					06/0	7/22 08:15	06/07/22	10:51	1
Lab Sample ID: LCS 880-26968/2-									c	liont	Samplo	ID: Lab Co	ontrol S	amplo
Matrix: Solid	~								Ŭ	nem	Jampie		Type: To	
Analysis Batch: 26955													Batch:	
Analysis Batch. 20000				Spike	L	cs	LCS					%Rec	Baten.	20000
Analyte				Added			Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	810			mg/Kg		-	81	70 - 130		
GRO)-C6-C10						-		5.5						
Diesel Range Organics (Over				1000	10	21		mg/Kg			102	70 - 130		
C10-C28)														
	LCS	LCS												
Surrogate	%Recovery	Qual	ifier	Limits										
1-Chlorooctane	85			70 - 130										
p-Terphenyl	86			70 - 130										
	3-A							Clie	ent	Sam	ple ID: L	ab Contro	-	-
Matrix: Solid	3-A							Clie	ent	Sam	ple ID: L	Prep 1	Type: To	otal/NA
Matrix: Solid	3- <b>A</b>			0.1				Clie	ent	Sam	ple ID: L	Prep T Prep	-	otal/NA 26968
Matrix: Solid Analysis Batch: 26955	3-A			Spike			LCSD		ent		-	Prep 1 Prep %Rec	Type: To Batch:	otal/NA 26968 RPD
Matrix: Solid Analysis Batch: 26955 Analyte	3-A			Added	Res	ult	LCSD Qualifier	Unit	ent	Sam	%Rec	Prep 1 Prep %Rec Limits	RPD	26968 RPD Limit
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics	3-A					ult			ent		-	Prep 1 Prep %Rec	Type: To Batch:	26968 RPD Limit
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10	3-A 			Added	Res	ult 7.7		Unit mg/Kg	ent		%Rec	Prep 1 Prep %Rec Limits	RPD	otal/NA 26968 RPD
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	3-A			Added	<b>Res</b> 72	ult 7.7		Unit	ent		% <b>Rec</b>	Prep 7 Prep %Rec Limits 70 - 130	Type: To Batch: RPD 11	26968 RPD Limit 20
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over				Added	<b>Res</b> 72	ult 7.7		Unit mg/Kg	ent		% <b>Rec</b>	Prep 7 Prep %Rec Limits 70 - 130	Type: To Batch: RPD 11	26968 RPD Limit 20
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD			Added 1000 1000	<b>Res</b> 72	ult 7.7		Unit mg/Kg	ent		% <b>Rec</b>	Prep 7 Prep %Rec Limits 70 - 130	Type: To Batch: RPD 11	26968 RPD Limit 20
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD %Recovery			Added 1000 1000 Limits	<b>Res</b> 72	ult 7.7		Unit mg/Kg	ent		% <b>Rec</b>	Prep 7 Prep %Rec Limits 70 - 130	Type: To Batch: RPD 11	26968 RPD Limit 20
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD %Recovery 75			Added 1000 1000 <i>Limits</i> 70 - 130	<b>Res</b> 72	ult 7.7		Unit mg/Kg	ent		% <b>Rec</b>	Prep 7 Prep %Rec Limits 70 - 130	Type: To Batch: RPD 11	26968 RPD Limit 20
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCSD %Recovery			Added 1000 1000 Limits	<b>Res</b> 72	ult 7.7		Unit mg/Kg	ent		% <b>Rec</b>	Prep 7 Prep %Rec Limits 70 - 130	Type: To Batch: RPD 11	26968 RPD Limit 20
Matrix: Solid Analysis Batch: 26955 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl	LCSD %Recovery 75 74			Added 1000 1000 <i>Limits</i> 70 - 130	<b>Res</b> 72	ult 7.7		Unit mg/Kg	ənt		<b>%Rec</b> 73 86	Prep 7 Prep %Rec Limits 70 - 130	Type: To Batch: RPD 11 17	otal/NA 26968 RPD Limit 20 20
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2376-A-101-E	LCSD %Recovery 75 74			Added 1000 1000 <i>Limits</i> 70 - 130	<b>Res</b> 72	ult 7.7		Unit mg/Kg	ənt		<b>%Rec</b> 73 86	Prep           %Rec           Limits           70 - 130           70 - 130	Type: To Batch: RPD 11 17	26968 RPD Limit 20 20
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2376-A-101-E Matrix: Solid	LCSD %Recovery 75 74			Added 1000 1000 <i>Limits</i> 70 - 130	<b>Res</b> 72	ult 7.7		Unit mg/Kg	ent		<b>%Rec</b> 73 86	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 Sample ID Prep 7	Type: To Batch: <u>RPD</u> 11 17 : Matrix	a Spike
Matrix: Solid Analysis Batch: 26955 Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate C-Chlorooctane D-Terphenyl Lab Sample ID: 890-2376-A-101-E Matrix: Solid	LCSD %Recovery 75 74	Qual	ifier	Added 1000 1000 <i>Limits</i> 70 - 130	Res 72 863	ult 7.7	Qualifier	Unit mg/Kg	ent.		<b>%Rec</b> 73 86	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 Sample ID Prep 7	Type: To Batch: 11 17 : Matrix Type: To	a Spike
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 890-2376-A-101-E Matrix: Solid Analysis Batch: 26955	LCSD %Recovery 75 74 8 MS	<u>Qual</u>	ifier	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130	Res 72 863	<u>ult</u> 7.7 3.1	Qualifier	Unit mg/Kg	ent		<b>%Rec</b> 73 86	Prep 7 Prep % Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 Prep 7	Type: To Batch: 11 17 : Matrix Type: To	a Spike
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 890-2376-A-101-E Matrix: Solid Analysis Batch: 26955 Analyte	LCSD %Recovery 75 74 8 MS Sample	Qual Samı Quali	ifier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike	Res	<u>ult</u> 7.7 3.1	Qualifier MS Qualifier	<mark>Unit</mark> mg/Kg mg/Kg	ent	D	%Rec 73 86 Client \$	Prep 7 Prep % Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 Prep 7 %Rec	Type: To Batch: 11 17 : Matrix Type: To	a Spike
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2376-A-101-E Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10	LCSD %Recovery 75 74 8 MS Sample Result <49.9	Qual Samı Quali	ifier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130 <b>Spike</b> Added 997	Res 72' 863 863 863 863 863 863	ult 7.7 3.1 MS ult 7.2	Qualifier MS Qualifier	Unit mg/Kg mg/Kg Unit mg/Kg	ent	D	%Rec           73           86           Client \$           %Rec           68	Prep 7 Prep % %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 %Rec Limits 70 - 130	Type: To Batch: 11 17 : Matrix Type: To	a Spike
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 890-2376-A-101-E Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	LCSD %Recovery 75 74 8 MS Sample Result	Qual Samı Quali	ifier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130 Spike Added	Res	ult 7.7 3.1 MS ult 7.2	Qualifier MS Qualifier	Unit mg/Kg mg/Kg	ent	D	%Rec 73 86 Client \$	Prep 7 Prep % Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 -	Type: To Batch: 11 17 : Matrix Type: To	a Spike
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 890-2376-A-101-E Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	LCSD %Recovery 75 74 8 MS Sample Result <49.9	Qual Samı Quali	ifier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130 <b>Spike</b> Added 997	Res 72' 863 863 863 863 863 863	ult 7.7 3.1 MS ult 7.2	Qualifier MS Qualifier	Unit mg/Kg mg/Kg Unit mg/Kg	ent	D	%Rec           73           86           Client \$           %Rec           68	Prep 7 Prep % %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 %Rec Limits 70 - 130	Type: To Batch: 11 17 : Matrix Type: To	a Spike
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 890-2376-A-101-E Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	LCSD %Recovery 75 74 8 MS Sample Result <49.9 60.3	Qual Samı Quali	ifier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130 <b>Spike</b> Added 997	Res 72' 863 863 863 863 863 863	ult 7.7 3.1 MS ult 7.2	Qualifier MS Qualifier	Unit mg/Kg mg/Kg Unit mg/Kg	ent	D	%Rec           73           86           Client \$           %Rec           68	Prep 7 Prep % %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 %Rec Limits 70 - 130	Type: To Batch: 11 17 : Matrix Type: To	a Spike
Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2376-A-101-E Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD %Recovery 75 74 8 MS Sample Result <49.9 60.3	Quali Samı Quali U F1	ifier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130 <b>Spike</b> Added 997	Res 72' 863 863 863 863 863 863	ult 7.7 3.1 MS ult 7.2	Qualifier MS Qualifier	Unit mg/Kg mg/Kg Unit mg/Kg	ent .	D	%Rec           73           86           Client \$           %Rec           68	Prep 7 Prep % %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 %Rec Limits 70 - 130	Type: To Batch: 11 17 : Matrix Type: To	a Spike
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2376-A-101-E Matrix: Solid Analysis Batch: 26955 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD %Recovery 75 74 8 MS Sample Result <49.9 60.3 <i>M</i> S	Quali Samı Quali U F1	ifier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130 70 - 130 997 997	Res 72' 863 863 863 863 863 863	ult 7.7 3.1 MS ult 7.2	Qualifier MS Qualifier	Unit mg/Kg mg/Kg Unit mg/Kg	ent	D	%Rec           73           86           Client \$           %Rec           68	Prep 7 Prep % %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 %Rec Limits 70 - 130	Type: To Batch: 11 17 : Matrix Type: To	a Spike

84

o-Terphenyl

70 - 130

Client: Ensolum Project/Site: ROW 3 Muy Wayno Line Job ID: 890-2379-1 SDG: 03E1558023

Page 71 of 87

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

Matrix: Solid	01-C MSD					Ŭ	ion o		): Matrix Sp Prep 1	ріке Бир Гуре: То	
Analysis Batch: 26955										Batch:	
Analysis Datch. 20000	Sample	Sample	Spike	MSD	MSD				%Rec	Daten.	RPI
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics	<49.9		1000	672.4		mg/Kg		67	70 - 130	1	2
(GRO)-C6-C10	10.0	011	1000	072.1		ing/itg		01	10-100	·	-
Diesel Range Organics (Over	60.3		1000	791.9		mg/Kg		73	70 - 130	3	2
C10-C28)											
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	84		70 - 130								
o-Terphenyl	80		70 - 130 70 - 130								
			101100								
ethod: 300.0 - Anions, Id	on Chromat	ography									
Lab Sample ID: MB 880-2703	1/1 <b>-A</b>							<b>Client S</b>	Sample ID:	Method	Blar
Matrix: Solid									Prep	Type: S	olub
Analysis Batch: 27217											
		MB MB									
Analyte	Re	esult Qualifier		RL	Unit		D P	repared	Analyz	zed	Dil F
Chloride	<	<5.00 U		5.00	mg/K	g			06/09/22	18:29	
Aatrix: Solid	51/2-A							Compre	ID: Lab Co Prep	Type: S	
Matrix: Solid Analysis Batch: 27217	51/Z-A		Spike		LCS	11-24		-	Prep %Rec		
Matrix: Solid Analysis Batch: 27217 Analyte			Added	Result	LCS Qualifier	Unit ma/Ka	<u>D</u>	%Rec	Prep %Rec Limits		
Matrix: Solid Analysis Batch: 27217 Analyte			-			Unit mg/Kg		-	Prep %Rec		
Matrix: Solid Analysis Batch: 27217 Analyte Chloride			Added	Result		mg/Kg	D	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110	Type: S	olub
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27			Added	Result		mg/Kg	D	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110	Type: S	le Du
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid			Added	Result		mg/Kg	D	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110	Type: S	le Du
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid			Added	Result 246.3		mg/Kg	D	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110	Type: S	le Du
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-270 Matrix: Solid Analysis Batch: 27217			Added	Result 246.3 LCSD	Qualifier	mg/Kg	D	%Rec 99	Prep %Rec Limits 90 - 110 Lab Contro Prep	Type: S	le Du solub RF
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid Analysis Batch: 27217 Analyte			Added 250 Spike	Result 246.3 LCSD	Qualifier	mg/Kg Clie	D_ nt San	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec	Type: S	le Du olub RF Lin
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid Analysis Batch: 27217 Analyte			Added 250 Spike Added	Result 246.3 LCSD Result	Qualifier	mg/Kg Clie	D_ nt San	%Rec 99 nple ID:	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	Type: S DI Sampl Type: S RPD	le Du olub RF Lin
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid Analysis Batch: 27217 Analyte Chloride	031/3-A		Added 250 Spike Added	Result 246.3 LCSD Result	Qualifier	mg/Kg Clie	D_ nt San	%Rec 99 11ple ID: %Rec 99	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	Type: S DI Sampl Type: S <u>RPD</u> 0	le Du olub RF Lin
Lab Sample ID: LCS 880-2703 Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-270 Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A- Matrix: Solid	031/3-A		Added 250 Spike Added	Result 246.3 LCSD Result	Qualifier	mg/Kg Clie	D_ nt San	%Rec 99 11ple ID: %Rec 99	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	Type: S DI Sampl Type: S <u>RPD</u> 0	le Du olub RF Lin
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A-	031/3-A		Added 250 Spike Added	Result 246.3 LCSD Result	Qualifier	mg/Kg Clie	D_ nt San	%Rec 99 11ple ID: %Rec 99	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	Type: S ol Sampl Type: S <u></u> <u></u> <u></u> 0 : Matrix	le Du olub RF Lin
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A- Matrix: Solid	031/3-A  3-C MS		Added 250 Spike Added	Result 246.3 LCSD Result 247.1	Qualifier	mg/Kg Clie	D_ nt San	%Rec 99 11ple ID: %Rec 99	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	Type: S ol Sampl Type: S <u></u> <u></u> <u></u> 0 : Matrix	le Du olub RF Lin Spik
Matrix: Solid Analysis Batch: 27217 Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A- Matrix: Solid Analysis Batch: 27217	031/3-A 	Sample Qualifier	Added 250 Spike Added 250	Result 246.3 LCSD Result 247.1	Qualifier LCSD Qualifier	mg/Kg Clie	D_ nt San	%Rec 99 11ple ID: %Rec 99	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep	Type: S ol Sampl Type: S <u></u> <u></u> <u></u> 0 : Matrix	le Du olub RF Lin
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A- Matrix: Solid Analysis Batch: 27217 Analyte	031/3-A 	-	Added 250 Spike Added 250 Spike	Result 246.3 LCSD Result 247.1	Qualifier LCSD Qualifier MS	Unit mg/Kg	D_ nt San D_	%Rec 99 mple ID: 1 %Rec 99 Client	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec	Type: S ol Sampl Type: S <u></u> <u></u> <u></u> 0 : Matrix	le Du olub Rf Lin Spil
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-270 Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A- Matrix: Solid Analysis Batch: 27217 Analyte Chloride	031/3-A 3-C MS Sample Result 18.9	-	Added 250 Spike Added 250 Spike Added	Result 246.3 LCSD Result 247.1 MS Result	Qualifier LCSD Qualifier MS	Unit Unit mg/Kg	D	%Rec           99           mple ID:           %Rec           99           Client           %Rec           97	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	Type: S DI Sampl Type: S RPD 0 C: Matrix Type: S	le Du olub RF Lin Spik olub
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A- Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A-	031/3-A 3-C MS Sample Result 18.9	-	Added 250 Spike Added 250 Spike Added	Result 246.3 LCSD Result 247.1 MS Result	Qualifier LCSD Qualifier MS	Unit Unit mg/Kg	D	%Rec           99           mple ID:           %Rec           99           Client           %Rec           97	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	Type: S ol Sampl Type: S <u> RPD</u> 0 : Matrix Type: S pike Dup	le Du colub RF Lin Spil colub
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A- Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A- Matrix: Solid	031/3-A 3-C MS Sample Result 18.9	-	Added 250 Spike Added 250 Spike Added	Result 246.3 LCSD Result 247.1 MS Result	Qualifier LCSD Qualifier MS	Unit Unit mg/Kg	D	%Rec           99           mple ID:           %Rec           99           Client           %Rec           97	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	Type: S DI Sampl Type: S RPD 0 C: Matrix Type: S	le Du colub RF Lin Spil colub
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A- Matrix: Solid	031/3-A 3-C MS Sample Result 18.9 3-D MSD	Qualifier	Added 250 Spike Added 250 Spike Added 252	Result 246.3 LCSD Result 247.1 MS Result 263.8	Qualifier LCSD Qualifier MS Qualifier	Unit Unit mg/Kg	D	%Rec           99           mple ID:           %Rec           99           Client           %Rec           97	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 0: Matrix Sp	Type: S ol Sampl Type: S <u> RPD</u> 0 : Matrix Type: S pike Dup	le Du olub RR Lin Spil olub
Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: LCSD 880-27 Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A- Matrix: Solid Analysis Batch: 27217 Analyte Chloride Lab Sample ID: 880-15521-A- Matrix: Solid	031/3-A 3-C MS Sample Result 18.9 3-D MSD Sample	-	Added 250 Spike Added 250 Spike Added	Result 246.3 LCSD Result 247.1 MS Result 263.8	Qualifier LCSD Qualifier MS	Unit Unit mg/Kg	D	%Rec           99           mple ID:           %Rec           99           Client           %Rec           97	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	Type: S ol Sampl Type: S <u> RPD</u> 0 : Matrix Type: S pike Dup	le Du folub RF Lin Spik olub

### **QC Association Summary**

Client: Ensolum Project/Site: ROW 3 Muy Wayno Line Job ID: 890-2379-1

SDG: 03E1558023

#### **GC VOA**

#### Analysis Batch: 26971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
390-2379-1	PH01	Total/NA	Solid	8021B	2701
390-2379-2	PH01	Total/NA	Solid	8021B	2701
390-2379-3	PH02	Total/NA	Solid	8021B	2701
390-2379-4	PH02	Total/NA	Solid	8021B	2701
390-2379-5	PH03	Total/NA	Solid	8021B	2701
390-2379-6	PH03	Total/NA	Solid	8021B	2701
890-2379-7	PH04	Total/NA	Solid	8021B	2701
390-2379-8	PH04	Total/NA	Solid	8021B	270
MB 880-26988/5-A	Method Blank	Total/NA	Solid	8021B	2698
MB 880-27017/5-A	Method Blank	Total/NA	Solid	8021B	2701
LCS 880-27017/1-A	Lab Control Sample	Total/NA	Solid	8021B	270
LCSD 880-27017/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	270
390-2374-A-5-C MS	Matrix Spike	Total/NA	Solid	8021B	270
390-2374-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	270
Lab Sample ID MB 880-26988/5-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Bat
rep Batch: 26988 Lab Sample ID MB 880-26988/5-A rep Batch: 27017	•				Prep Bate
Lab Sample ID MB 880-26988/5-A rep Batch: 27017 Lab Sample ID	Method Blank Client Sample ID	Total/NA Prep Type	Solid Matrix	5035 Method	
Lab Sample ID MB 880-26988/5-A rep Batch: 27017 Lab Sample ID 390-2379-1	Client Sample ID PH01	Total/NA Prep Type Total/NA	Solid           Matrix           Solid	5035 Method 5035	
Lab Sample ID MB 880-26988/5-A rep Batch: 27017 Lab Sample ID 390-2379-1	Method Blank Client Sample ID PH01 PH01	Total/NA Prep Type Total/NA Total/NA	Solid Matrix	5035 Method	
Lab Sample ID WB 880-26988/5-A rep Batch: 27017 Lab Sample ID 890-2379-1 390-2379-2	Client Sample ID PH01	Total/NA Prep Type Total/NA	Solid           Matrix           Solid	5035 Method 5035	
Lab Sample ID MB 880-26988/5-A rep Batch: 27017 Lab Sample ID 890-2379-1 890-2379-2 890-2379-3 890-2379-4	Method Blank Client Sample ID PH01 PH02 PH02 PH02	Total/NA           Prep Type           Total/NA           Total/NA           Total/NA           Total/NA           Total/NA           Total/NA	Solid Matrix Solid Solid Solid Solid Solid	5035 Method 5035 5035 5035 5035 5035	
Lab Sample ID WB 880-26988/5-A rep Batch: 27017 Lab Sample ID 390-2379-1 390-2379-2 390-2379-3 390-2379-4	Method Blank Client Sample ID PH01 PH01 PH02	Total/NA Prep Type Total/NA Total/NA Total/NA	Solid Matrix Solid Solid Solid	5035 Method 5035 5035 5035 5035	Prep Bat
Lab Sample ID MB 880-26988/5-A rep Batch: 27017 Lab Sample ID 890-2379-1 890-2379-2 890-2379-3	Method Blank Client Sample ID PH01 PH02 PH02 PH02	Total/NA           Prep Type           Total/NA           Total/NA           Total/NA           Total/NA           Total/NA           Total/NA	Solid Matrix Solid Solid Solid Solid Solid	5035 Method 5035 5035 5035 5035 5035	
Lab Sample ID WB 880-26988/5-A rep Batch: 27017 Lab Sample ID 390-2379-1 390-2379-2 390-2379-3 390-2379-4 390-2379-5 390-2379-6	Method Blank Client Sample ID PH01 PH02 PH02 PH03	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Matrix Solid Solid Solid Solid Solid Solid	5035           Method           5035           5035           5035           5035           5035           5035           5035           5035	
Lab Sample ID MB 880-26988/5-A rep Batch: 27017 Lab Sample ID 890-2379-1 890-2379-2 890-2379-3 890-2379-4 890-2379-5	Method Blank Client Sample ID PH01 PH02 PH02 PH03 PH03 PH03	Total/NA	Solid Matrix Solid Solid Solid Solid Solid Solid Solid	5035 Method 5035 5035 5035 5035 5035 5035 5035 5035	
Lab Sample ID WB 880-26988/5-A rep Batch: 27017 Lab Sample ID 390-2379-1 390-2379-2 390-2379-3 390-2379-3 390-2379-4 390-2379-5 390-2379-6 390-2379-7 390-2379-8	Method Blank Client Sample ID PH01 PH02 PH02 PH03 PH03 PH04	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Matrix Solid Solid Solid Solid Solid Solid Solid Solid	5035           Method           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035	
Lab Sample ID MB 880-26988/5-A rep Batch: 27017 Lab Sample ID 890-2379-1 890-2379-2 890-2379-3 890-2379-4 890-2379-5 890-2379-6 890-2379-7	Method Blank Client Sample ID PH01 PH02 PH02 PH03 PH03 PH04 PH04	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid	5035           Method           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035	
Lab Sample ID MB 880-26988/5-A rep Batch: 27017 Lab Sample ID 890-2379-1 890-2379-2 890-2379-3 890-2379-3 890-2379-4 890-2379-5 890-2379-6 890-2379-7 890-2379-8 MB 880-27017/5-A	Method Blank Client Sample ID PH01 PH02 PH02 PH03 PH03 PH04 PH04 Method Blank	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	5035           Method           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035           5035	
Lab Sample ID MB 880-26988/5-A rep Batch: 27017 Lab Sample ID 890-2379-1 890-2379-2 890-2379-3 890-2379-4 890-2379-5 890-2379-6 890-2379-7 890-2379-7 890-2379-8 MB 880-27017/5-A LCS 880-27017/1-A	Method Blank Client Sample ID PH01 PH02 PH02 PH03 PH03 PH03 PH04 PH04 Method Blank Lab Control Sample	Total/NA         Prep Type         Total/NA         Total/NA	Solid Matrix Solid	5035           Method           5035	

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2379-1	PH01	Total/NA	Solid	Total BTEX	
890-2379-2	PH01	Total/NA	Solid	Total BTEX	
890-2379-3	PH02	Total/NA	Solid	Total BTEX	
890-2379-4	PH02	Total/NA	Solid	Total BTEX	
890-2379-5	PH03	Total/NA	Solid	Total BTEX	
890-2379-6	PH03	Total/NA	Solid	Total BTEX	
890-2379-7	PH04	Total/NA	Solid	Total BTEX	
890-2379-8	PH04	Total/NA	Solid	Total BTEX	

GC Semi VOA

#### Analysis Batch: 26955

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2379-1	PH01	Total/NA	Solid	8015B NM	26968

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Page 72 of 87

5
# **QC Association Summary**

Client: Ensolum Project/Site: ROW 3 Muy Wayno Line

# GC Semi VOA (Continued)

#### Analysis Batch: 26955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2379-2	PH01	Total/NA	Solid	8015B NM	26968
890-2379-3	PH02	Total/NA	Solid	8015B NM	26968
890-2379-4	PH02	Total/NA	Solid	8015B NM	26968
890-2379-5	PH03	Total/NA	Solid	8015B NM	26968
890-2379-6	PH03	Total/NA	Solid	8015B NM	26968
890-2379-7	PH04	Total/NA	Solid	8015B NM	26968
890-2379-8	PH04	Total/NA	Solid	8015B NM	26968
MB 880-26968/1-A	Method Blank	Total/NA	Solid	8015B NM	26968
LCS 880-26968/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26968
LCSD 880-26968/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26968
890-2376-A-101-B MS	Matrix Spike	Total/NA	Solid	8015B NM	26968
890-2376-A-101-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26968

#### Prep Batch: 26968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2379-1	PH01	Total/NA	Solid	8015NM Prep	
890-2379-2	PH01	Total/NA	Solid	8015NM Prep	
890-2379-3	PH02	Total/NA	Solid	8015NM Prep	
890-2379-4	PH02	Total/NA	Solid	8015NM Prep	
890-2379-5	PH03	Total/NA	Solid	8015NM Prep	
890-2379-6	PH03	Total/NA	Solid	8015NM Prep	
890-2379-7	PH04	Total/NA	Solid	8015NM Prep	
890-2379-8	PH04	Total/NA	Solid	8015NM Prep	
MB 880-26968/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26968/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26968/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2376-A-101-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2376-A-101-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 27083

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2379-1	PH01	Total/NA	Solid	8015 NM	
890-2379-2	PH01	Total/NA	Solid	8015 NM	
890-2379-3	PH02	Total/NA	Solid	8015 NM	
890-2379-4	PH02	Total/NA	Solid	8015 NM	
890-2379-5	PH03	Total/NA	Solid	8015 NM	
890-2379-6	PH03	Total/NA	Solid	8015 NM	
890-2379-7	PH04	Total/NA	Solid	8015 NM	
890-2379-8	PH04	Total/NA	Solid	8015 NM	
<u> </u>					

#### HPLC/IC

#### Leach Batch: 27031

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2379-1	PH01	Soluble	Solid	DI Leach	
890-2379-2	PH01	Soluble	Solid	DI Leach	
890-2379-3	PH02	Soluble	Solid	DI Leach	
890-2379-4	PH02	Soluble	Solid	DI Leach	
890-2379-5	PH03	Soluble	Solid	DI Leach	
890-2379-6	PH03	Soluble	Solid	DI Leach	
890-2379-7	PH04	Soluble	Solid	DI Leach	

#### Eurofins Carlsbad

Page 73 of 87

#### Job ID: 890-2379-1 SDG: 03E1558023

# **QC Association Summary**

Client: Ensolum Project/Site: ROW 3 Muy Wayno Line

# HPLC/IC (Continued)

#### Leach Batch: 27031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2379-8	PH04	Soluble	Solid	DI Leach	
MB 880-27031/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27031/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27031/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15521-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-15521-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 27217

PLC/IC (Continued each Batch: 27031 (Co	,				
_ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
390-2379-8	PH04	Soluble	Solid	DI Leach	
MB 880-27031/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27031/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27031/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15521-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-15521-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
nalysis Batch: 27217 Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2379-1	PH01	Soluble	Solid	300.0	27031
890-2379-2	PH01	Soluble	Solid	300.0	27031
890-2379-3	PH02	Soluble	Solid	300.0	27031
890-2379-4	PH02	Soluble	Solid	300.0	27031
890-2379-5	PH03	Soluble	Solid	300.0	27031
890-2379-6	PH03	Soluble	Solid	300.0	27031
890-2379-7	PH04	Soluble	Solid	300.0	27031
890-2379-8	PH04	Soluble	Solid	300.0	27031
MB 880-27031/1-A	Method Blank	Soluble	Solid	300.0	27031
LCS 880-27031/2-A	Lab Control Sample	Soluble	Solid	300.0	27031
LCSD 880-27031/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27031
880-15521-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	27031
880-15521-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	27031

Job ID: 890-2379-1 SDG: 03E1558023 Project/Site: ROW 3 Muy Wayno Line

Job ID: 890-2379-1 SDG: 03E1558023

## Lab Sample ID: 890-2379-1 Matrix: Solid

Lab Sample ID: 890-2379-2

Lab Sample ID: 890-2379-3

Lab Sample ID: 890-2379-4

Matrix: Solid

Matrix: Solid

Date Collected: 06/03/22 09:35 Date Received: 06/06/22 09:53

**Client Sample ID: PH01** 

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27017	06/07/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26971	06/08/22 06:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27107	06/08/22 15:52	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27083	06/08/22 10:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26968	06/07/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26955	06/07/22 17:57	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27031	06/07/22 16:03	SC	XEN MID
Soluble	Analysis	300.0		10			27217	06/09/22 21:14	СН	XEN MID

# **Client Sample ID: PH01**

# Date Collected: 06/03/22 09:55

Date Received: 06/06/22 09:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27017	06/07/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26971	06/08/22 06:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27107	06/08/22 15:52	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27083	06/08/22 10:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26968	06/07/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26955	06/07/22 18:18	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27031	06/07/22 16:03	SC	XEN MID
Soluble	Analysis	300.0		5			27217	06/09/22 21:37	СН	XEN MID

## **Client Sample ID: PH02**

# Date Collected: 06/03/22 10:30

#### Date Received: 06/06/22 09:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27017	06/07/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26971	06/08/22 06:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27107	06/08/22 15:52	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27083	06/08/22 10:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26968	06/07/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26955	06/07/22 18:40	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27031	06/07/22 16:03	SC	XEN MID
Soluble	Analysis	300.0		1			27217	06/10/22 11:36	СН	XEN MID

#### **Client Sample ID: PH02** Date Collected: 06/03/22 12:25 Date Received: 06/06/22 09:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	27017	06/07/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26971	06/08/22 07:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27107	06/08/22 15:52	SM	XEN MID

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Matrix: Solid

9

5

Project/Site: ROW 3 Muy Wayno Line

Job ID: 890-2379-1 SDG: 03E1558023

## Lab Sample ID: 890-2379-4 Matrix: Solid

Date Collected: 06/03/22 12:25 Date Received: 06/06/22 09:53

**Client Sample ID: PH02** 

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27083	06/08/22 10:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26968	06/07/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26955	06/07/22 19:02	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27031	06/07/22 16:03	SC	XEN MID
Soluble	Analysis	300.0		1			27217	06/09/22 21:53	СН	XEN MID

#### **Client Sample ID: PH03** Date Collected: 06/03/22 10:50

## Date Received: 06/06/22 09:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27017	06/07/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26971	06/08/22 07:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27107	06/08/22 15:52	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27083	06/08/22 10:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26968	06/07/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26955	06/07/22 19:24	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27031	06/07/22 16:03	SC	XEN MID
Soluble	Analysis	300.0		5			27217	06/09/22 22:01	CH	XEN MID

#### **Client Sample ID: PH03**

Date Collected: 06/03/22 11:05 Date Received: 06/06/22 09:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	27017	06/07/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26971	06/08/22 07:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27107	06/08/22 15:52	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27083	06/08/22 10:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26968	06/07/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26955	06/07/22 19:45	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27031	06/07/22 16:03	SC	XEN MID
Soluble	Analysis	300.0		1			27217	06/09/22 22:09	СН	XEN MID

#### **Client Sample ID: PH04**

#### Date Collected: 06/03/22 12:30 Date Received: 06/06/22 09:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27017	06/07/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26971	06/08/22 08:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27107	06/08/22 15:52	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27083	06/08/22 10:33	SM	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	26968 26955	06/07/22 08:15 06/07/22 20:07	DM SM	XEN MID XEN MID

**Eurofins Carlsbad** 

Matrix: Solid

5 9 Matrix: Solid

Lab Sample ID: 890-2379-6

Lab Sample ID: 890-2379-7

Matrix: Solid

Project/Site: ROW 3 Muy Wayno Line

# Lab Chronicle

Job ID: 890-2379-1 SDG: 03E1558023

# Lab Sample ID: 890-2379-7

Lab Sample ID: 890-2379-8

Date Collected: 06/03/22 12:30 Date Received: 06/06/22 09:53

**Client Sample ID: PH04** 

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	27031	06/07/22 16:03	SC	XEN MID
Soluble	Analysis	300.0		5			27217	06/09/22 22:17	СН	XEN MID

# **Client Sample ID: PH04**

#### Date Collected: 06/03/22 12:45 Date Received: 06/06/22 09:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27017	06/07/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26971	06/08/22 08:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27107	06/08/22 15:52	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27083	06/08/22 10:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26968	06/07/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26955	06/07/22 20:28	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27031	06/07/22 16:03	SC	XEN MID
Soluble	Analysis	300.0		1			27217	06/10/22 07:56	СН	XEN MID

#### Laboratory References:

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

Matrix: Solid

# Matrix: Solid

9

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Project/Site: ROW 3 Muy Wayno Line Laboratory: Eurofins Midland Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.	2 3 4
Laboratory: Eurofins Midland	2 3 4 5
	3 4 5
Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.	4
	4
Authority Program Identification Number Expiration Date	5
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	5
the agency does not offer certification.	
Analysis Method Prep Method Matrix Analyte Solid Total TPH	
Total BTEX     Solid     Total BTEX	
	8
	9
	10
	13

Eurofins Carlsbad

# **Method Summary**

Client: Ensolum Project/Site: ROW 3 Muy Wayno Line Job ID: 890-2379-1 SDG: 03E1558023

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
SW846 =	= "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, Ma "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed	•	
TAL SUP	= TestAmerica Laboratories, Standard Operating Procedure		
Laboratory R	eferences:		
XEN MID	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440	1	

#### Protocol References:

#### Laboratory References:

Page 79 of 87

# Sample Summary

Job ID: 890-2379-1	
SDG: 03E1558023	

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-2379-1	PH01	Solid	06/03/22 09:35	06/06/22 09:53	2	
90-2379-2	PH01	Solid	06/03/22 09:55	06/06/22 09:53	4	
90-2379-3	PH02	Solid	06/03/22 10:30	06/06/22 09:53	1	Į
90-2379-4	PH02	Solid	06/03/22 12:25	06/06/22 09:53	4	
90-2379-5	PH03	Solid	06/03/22 10:50	06/06/22 09:53	1	
90-2379-6	PH03	Solid	06/03/22 11:05		4	
90-2379-7 90-2379-8	PH04 PH04	Solid Solid	06/03/22 12:30 06/03/22 12:45	06/06/22 09:53 06/06/22 09:53	1	
						ł

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	Xenco	0			EL Pas Hobbs	so, TX () , NM (5	915) 58 75) 392	5-3443, Lu -7550, Ca	ıbbock, risbad, N	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199		Page 1 of 1
Project Manager: Ka	Kalei Jenninos			Bill to:	Bill to: (if different)		Adrian Baker	Baker			Work Order Comments	Comments
	Ensolum LLC			Comp	Company Name:		XTO Er	XTO Energy, Inc	7	Pro	Program: UST/PST 🗌 PRP 🔤 Brownfields 🔲 RRC 🗌	wnfields 🗌 RRC 🗌 Superfund 🗌
				Address:	SS:		3104 E	3104 E. Green Street	Street	Sta	State of Project:	
City, State ZIP:				City, S	City, State ZIP:		Carlsba	Carlsbad, NM 88220	3220	Rej	Reporting: Level II CLevel III PST/UST TRRP	
	817.683.2503		m	Email: kjennings@ensolum.com	ings@ens	solum.	com			Dei	Deliverables: EDD ADa	ADaPT  Other:
Project Name:	ROW 3 Muy Wayno Line	Vayno Lin		Turn Around	ă					ANALYSIS REQUEST	ST	Preservative Codes
Project Number:	03E1558023	3023	Routine	tine 🗌 Rush		Code						None: NO DI Water: H <sub>2</sub> O
Project Location:			Due Date:	ate:				-				2
Sampler's Name:	Conner Shore	Shore	TAT sta	TAT starts the day received by	ceived by				-			
PO#:			+	the lab, if received by 4:30pm	y 4:30pm	ers						H <sub>2</sub> SU <sub>4</sub> : H <sub>2</sub> NAUH: Na
SAMPLE RECEIPT	Temp		No Wet loe:	#_	Yes No	imet	0.0)					H3PU4: HP
Contes Custoda Contes		1	Compation Easter	LEV.	ANN - C	Par	A: 3					Na-S-O3: NaSO3
Sample Custody Seals:	Yes No		Temperature Reading:		5		6 (EF	_		890-2379 Chain of Custody	Custody	Zn Acetate+NaOH: Zn
Total Containers:		L	Corrected Temperature:		2		IDE	_		-	-	NaOH+Ascorbic Acid: SAPC
Sample Identification		Matrix Da	Date Time Sampled Sampled	ne Depth	Grab/ Comp	# of Cont	CHLOF	TPH (8				Sample Comments
PH01	s	06.03.22	3.22 935	5 2'	G	-	×	××	-			Incident ID:NAPP2209039217
PH01	s	06.03.22	$\vdash$		G	-	×	×	F			
PH02	S	06.03.22	3.22 1030	30	G		×	×	Ê			Cost Center:
PH02	S	06.03.22	3.22 1225	25 4'	G	-	×	×	f			
PH03	S	06.03.22	3.22 1050	1.	G	-	×	×				AFE: DD.2017.01927.CAP.CMP.01
PH03	S	06.03.22		)5 4'	G		×	××	Ĥ			DD.2017.01933.CAP.CMP.01
PH04	S	06.03.22	3.22 1230	30 1'	G		×	××				
PH04	S	06.03.22	3.22 1245	15 4	G	-	×	×				
000								-	+			
101		-				L		-				
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	) 200.8 / 6020: Metal(s) to be an	: nalyzed	8RCRA TCL	TCLP / SPLP 6010: 8RCRA	Texas 11	(0)	Sb As Ba I Sb As Ba	Ba Be I s Ba Be		Ca Cr Co Cu Fe Cr Co Cu Pb Mn	Mn MoNiK Se A e Ag TIU	vg SiO <sub>2</sub> Na Sr Ti Sn U V Zn 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 subcon 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 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. The	ument and relinquish vill be llable only for th um charge of \$85.00 w	nent of sample cost of sam	ples constitutes a mples and shall n I to each project a	t valid purchase of assume any and a charge of	e order from responsibili \$5 for each	client co ty for an sample	ompany 1y iosses submitte	to Eurofins or expensed to Eurofi	: Xenco, es Incun ns Xenco		tractors. It assigns standard terms and conditions losses are due to circumstances beyond the control se terms will be enforced unless previously negotiated.	<u>ρ</u>
Relinquished by: (Signature)	Signature)	) R	Received by: (Signature)	Signature)			Date/Time	ime			Received by: (Signature)	ture) Date/Time
		- Lu	0	P		1.01	0.0	0.6.92095	띬			

# 6/10/2022

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12 13

Chain of Custody

Job Number: 890-2379-1 SDG Number: 03E1558023

List Source: Eurofins Carlsbad

# Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 2379 List Number: 1 Creator: Clifton, Cloe

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

14

# Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2379 List Number: 2 Creator: Rodriguez, Leticia

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

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

14

Job Number: 890-2379-1 SDG Number: 03E1558023

List Source: Eurofins Midland List Creation: 06/07/22 12:08 PM



APPENDIX E

**NMOCD** Notifications

From:	Aimee Cole
To:	Tacoma Morrissey; Kalei Jennings; Ben Belill
Subject:	FW: XTO - Sampling Notification (week of 5/30/22 - 6/3/22)
Date:	Wednesday, May 25, 2022 3:40:13 PM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png

Submittal below for your records/attachment for reporting. Thanks!



Aimee Cole Senior Managing Scientist 720-384-7365 Ensolum, LLC

From: Baker, Adrian <adrian.baker@exxonmobil.com>

Sent: Wednesday, May 25, 2022 2:17 PM

To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>; Hamlet,

Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@state.nm.us>

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Green, Garrett J

<garrett.green@exxonmobil.com>; Aimee Cole <acole@ensolum.com>

Subject: XTO - Sampling Notification (week of 5/30/22 - 6/3/22)

# [ \*\*EXTERNAL EMAIL\*\*]

All,

XTO plans to complete final sampling activities at the following sites the week of May 30, 2022.

Tuesday, May 31st

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- BEU 5E Han Solo 114H / nAPP2209041753

Wednesday, June 1st

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- BEU 5E Han Solo 114H / nAPP2209041753

Thursday, June 2<sup>nd</sup>

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- Row 4 Muy Wayno Line / nAPP2209039217
- Pierce Canyon 3 SWD/ nAPP2209446613

Friday, June 3<sup>rd</sup>

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- Row 4 Muy Wayno Line / nAPP2209039217

Thank you,

Adrian Baker Environmental Coordinator Permian Business Unit

XTO Energy Inc. 6401 N. Holiday Hill Dr. Midland, Tx 79707 Mobile:(432)-236-3808 adrian.baker@exxonmobil.com

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	118428
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Create By	d Condition	Condition Date
jnob	Remediation Plan Approved with Conditions. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than four hundred (400) square feet.	8/25/2022

Action 118428

CONDITIONS

Page 87 of 87