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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2226628060
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy			OGRID 5	5380		
		Contact Te	Contact Telephone 575-200-0729			
		Incident #	(assigned by OCD)			
			reet, Carlsbad, Nev	w Mexico, 88220		
			Location	of Release So	ource	
Latitude 32.33576 Longit		Longitude _	-103.81984			
			(NAD 83 in dec	imal degrees to 5 decim	nal places)	
Site Name	JRU 17 CTI	3		Site Type	Central Tank B	attery
Date Release	Discovered	09/10/2022		API# (if app	licable)	
II:4 I -44	G4'	T1.	D	Commi	4	1
Unit Letter	Section	Township	Range	Coun	<u> </u>	
F	6	23S	31E	Eddy	У	
Surface Owne	r: State	➤ Federal □ Tr	ibal 🔲 Private (A	lame:)
			Nature and	Volume of F	Kelease	
				calculations or specific		volumes provided below)
Crude Oi		Volume Release			Volume Reco	,
▼ Produced Water Volume Released (bbls) 47.36			Volume Reco	vered (bbls) 45.00		
Is the concentration of total dissolved solids (TD in the produced water >10,000 mg/l?		\ /	Yes N	0		
Condensate Volume Released (bbls)			Volume Reco	vered (bbls)		
☐ Natural Gas Volume Released (Mcf)			Volume Reco	vered (Mcf)		
Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weight Recovered (provide units)			
Cause of Rel	ease Corrosi	on caused a releas	e of fluids from a	flow line associated	d with the James	s Ranch 17 and 7-30 CTBs. A vacuum
	truck re	ecovered all free fl	uids. A third-party	contractor has bee	en retained for r	emediation purposes.

Received by OCD: 12/9/2022 9:59:34 AM State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	NAPP2226628060
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respo	nsible party consider this a major release?
release as defined by	A release equal to or greater than 25 barre	· ·
19.15.29.7(A) NMAC?		
Yes No		
If YES, was immediate n	Lotice given to the OCD? By whom? To w	nom? When and by what means (phone, email, etc)?
	-	and Robert Hamlet on 09/11/2022 via email.
•		
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	as been secured to protect human health and	the environment.
•	•	likes, absorbent pads, or other containment devices.
	ecoverable materials have been removed an	,
	d above have <u>not</u> been undertaken, explain	
NA	a above have <u>not</u> been undertaken, explain	wny.
INA		
D 10.17.20.0 D (4) ND	TA C d	
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
		blease attach all information needed for closure evaluation.
I hereby certify that the info	rmation 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 not	fications and perform corrective actions for releases which may endanger
		OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o		responsibility for compliance with any other federal, state, or local laws
and/or regulations.		GOVER O
Printed Name: Garrett G		Title: SSHE Coordinator
Signature:	At Sun	Date:
email: garrett.green@exx	conmobil.com	Telephone: 575-200-0729
Cinan.		reiephone.
OCD Only		
Received by: Jocelyn	Harimon	Date: 09/23/2022
		_ ·····

Location:	JRU 17 CTB	
Spill Date:	9/10/2022	
	Area 1	
Approximate A	rea = 636.3	3 sq. ft.
Average Satura	tion (or depth) of spill = 1.2	5 inches
Average Porosi	ty Factor = 0.2	ס
	VOLUME OF LEAK	
Total Crude Oil	= 0.0) bbls
Total Produced	Water = 47.3	6 bbls
	TOTAL VOLUME OF LEAK	
Total Crude Oi	= 0.0	bbls
Total Produced	Water = 47.3	6 bbls
	TOTAL VOLUME RECOVERED	
Total Crude Oi	= 0.0	bbls
Total Produced	Water = 45.0	0 bbls

	Page 4 of	68
Incident ID	NAPP2226628060	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no tales than 20 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>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 not on an exploration, development, production, or storage site?	⊠ Yes □ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		

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

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

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Incident ID	NAPP2226628060	
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: _Garrett Green	Title: _Environmental Coordinator	
Signature:Sath_Surv	Date:12/8/2022	
email: _garrett.green@exxonmobil.com	Telephone:575-200-0729	
OCD Only		
Received by:Jocelyn Harimon	Date: 12/09/2022	

Page 6 of 68 Incident ID NAPP2226628060 District RP Facility ID Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the 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 con-	firmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility	
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 complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local laterals.	ertain release notifications and perform corrective actions for releases are of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of	
Printed Name: Garrett Green	Title: Environmental Coordinator	
Signature:	Date:12/8/2022	
email: garrett.green@exxonmobil.com	Telephone:575-200-0729	
OCD Only		
Received by: Jocelyn Harimon	Date: 12/09/2022	
☐ Approved ☐ Approved with Attached Conditions of A	Approval	
Signature:	Date:	

Page 7 of 68 Incident ID NAPP2226628060 District RP Facility ID Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be inc	cluded in the plan.	
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Contamination must be in areas immediately under or around production.	ction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, the	e environment, or groundwater.	
I hereby certify that the information given above is true and complete to rules and regulations all operators are required to report and/or file certa which may endanger public health or the environment. The acceptance liability should their operations have failed to adequately investigate and surface water, human health or the environment. In addition, OCD acceresponsibility for compliance with any other federal, state, or local laws	in release notifications and perform corrective actions for releases of a C-141 report by the OCD does not relieve the operator of d remediate contamination that pose a threat to groundwater, eptance of a C-141 report does not relieve the operator of	
	tle: Environmental Coordinator	
Signature: Saft Surv D	Pate:12/8/2022	
	elephone:575-200-0729	
OCD Only		
Received by: Jocelyn Harimon Da	ate:12/09/2022	
☐ Approved	roval Denied Deferral Approved	
Signature: Robert Hamlet Dat	e: 3/17/2023	



December 8, 2022

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

Re: Remediation Work Plan

JRU 17 CTB

Incident Number NAPP2226628060

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* to document the site assessment activities completed to date and propose a work plan to address impacted soil identified at the JRU 17 Central Tank Battery (CTB, Site). The purpose of the site assessment activities was to delineate the lateral and vertical extent of impacted soil resulting from a release of produced water. The following Work Plan proposes to excavate impacted soil within the top 4 feet of the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 6, Township 23 South, Range 31 East, in Eddy County, New Mexico (32.33576°N, 103.81984°W) and is associated with oil and gas exploration and production operations on land under the stewardship of the Bureau of Land Management (BLM).

On September 10, 2022, corrosion in a flowline resulted in the release of 47.36 barrels (bbls) of produced water to the surrounding pasture area. A vacuum truck was dispatched to the Site and recovered 45 bbls of the released fluids. XTO immediately reported the release to the NMOCD via email on September 11, 2022 and submitted a Release Notification Form C-141 (Form C-141) on September 22, 2022. The release was assigned Incident Number NAPP2226628060.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be 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 321946103492001, located approximately 0.4 miles southeast of the Site. The most recent measurement was taken in 2013 and the groundwater well was dry. The well depth is 180 feet bgs. The Well Record and Log is included in Appendix A and all wells used for depth to water determination are depicted on Figure 1.

XTO Energy, Inc. Remediation Work Plan JRU 17 CTB

The closest continuously flowing or significant watercourse to the Site is an emergent wetland, located approximately 3,750 feet southwest 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 (medium potential karst designation area).

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 requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On November 21, 2022, potholes PH01 through PH03 were advanced via hand auger and hydrovacuum within the release extent. The boreholes were advanced to a maximum depth of 4 feet bgs. Discrete soil samples were collected from each pothole at depths ranging from 1-foot bgs to 4 feet bgs. Soil from the boreholes was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix B. The soil sample locations are depicted on Figure 2. Photographic documentation was completed during the site visits and a photographic log is included in Appendix C.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil sample PH02 collected at 1-foot bgs indicated that chloride concentrations exceeded the reclamation requirement applied in the top 4 feet of soil. Laboratory analytical results are presented in Table 1 and the complete laboratory reports and chain-of-custody documentation are presented in Appendix D.



XTO Energy, Inc. Remediation Work Plan JRU 17 CTB

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated chloride concentrations exists across an approximate 1,190 square foot area and extends to a maximum depth of 4 feet bgs. XTO proposes to complete the following remediation activities:

- Excavation of chloride-impacted soil to a depth of 4 feet bgs. Excavation will proceed laterally
 until sidewall samples confirm chloride concentrations are compliant with the reclamation
 requirement in the top four feet.
- The soil samples will be handled as described above and analyzed for chloride. The soil samples
 will be analyzed for chloride only since benzene, BTEX, or TPH concentrations were not
 identified as a constituent of concern (COC) in the soil samples.
- An estimated 44 cubic yards of chloride impacted soil will be excavated. The excavated soil will be transferred to an approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions and re-seeded with the recommended BLM seed mixture.

XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD.

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

Sincerely, **Ensolum, LLC**

Proportion

Anita Thapalia, PhD, PG Project Geologist

cc: Garrett Green, XTO Shelby Pennington, XTO Bureau of Land Management Ashley Ager, MS, PG Principal, Geologist

ashley L. ager

Appendices:

Figure 1 Site Location Map Figure 2 Soil Sample Locations

Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Lithologic / Soil Sampling Logs

Appendix C Photographic Log

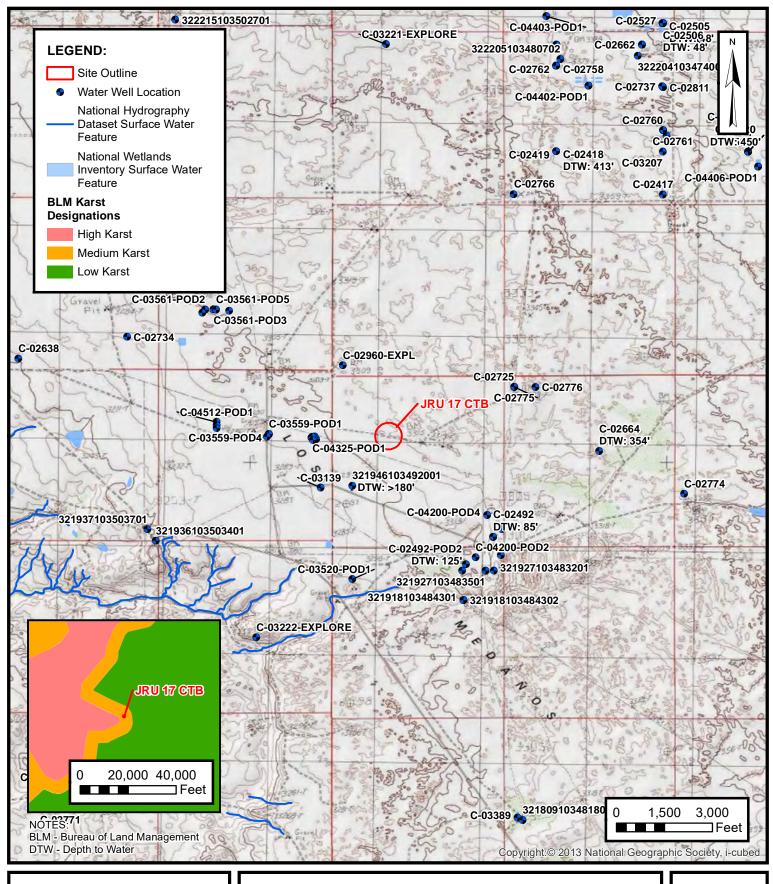
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications/Correspondence





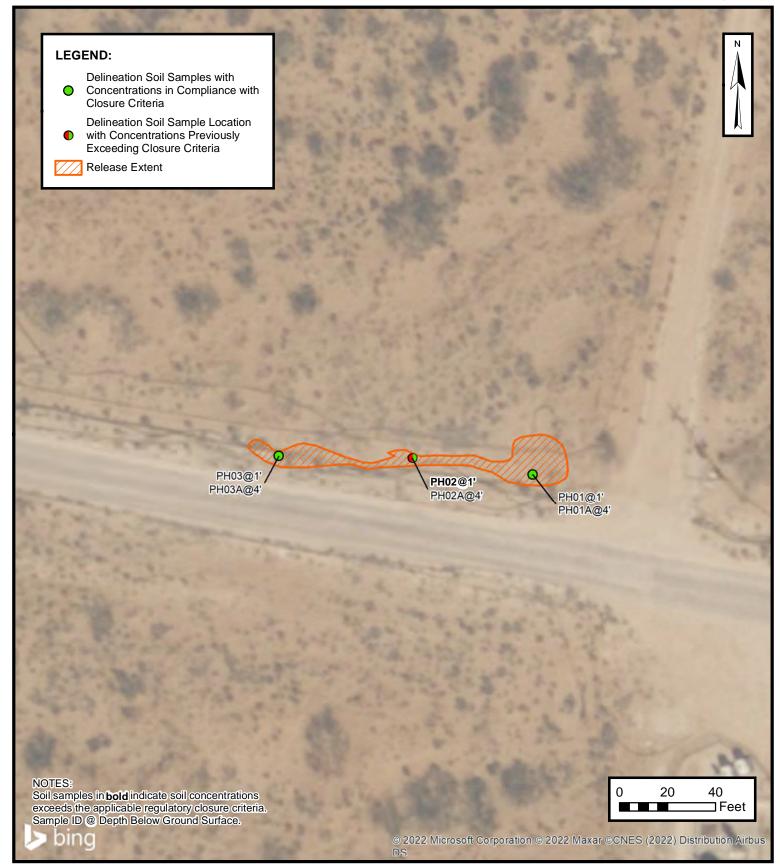
FIGURES





SITE RECEPTOR MAP

XTO ENERGY, INC JRU 17 CTB NAPP2226628060 Unit F, Sec 6, T23S, R31E Eddy County, New Mexico **FIGURE**





DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC JRU 17 CTB NAPP2226628060 Unit F, Sec 6, T23S, R31E Eddy County, New Mexico **FIGURE**



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS JRU 17 CTB XTO Energy, Inc. Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	Closure Criteria (N	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delin	eation Soil San	nples				
PH01	11/21/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	189
PH01A	11/21/2022	4	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5,630
PH02	11/21/2022	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	1,430
PH02A	11/21/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	6,570
PH03	11/21/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	473
PH03A	11/21/2022	4	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	17,400

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation

standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code



APPENDIX A

Referenced Well Records



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Groundwater Geographic Area:
United States GO

Click to hideNews Bulletins

• See the Water Data for the Nation Blog for the latest news and updates.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321946103492001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321946103492001 23S.31E.06.312333

Eddy County, New Mexico

Latitude 32°19'53.3", Longitude 103°49'24.8" NAD83

Land-surface elevation 3,305.00 feet above NGVD29

The depth of the well is 180 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of dat	<u>:a</u>									
Tab-separat	ed data									
Graph of da	<u>ıta</u>									
Reselect pe	<u>riod</u>									
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
1959-02-0- 1959-02-0-		D D	62610 62611		3160.28 3161.92	NGVD29 NAVD88	1 1	Z		
1959-02-0		D	72019	144.72			1	Z		
2013-01-1	6 22:30 UTC	m	62610			NGVD29	D	S	USGS	
2013-01-1	6 22:30 UTC	m	62611			NAVD88	D	S	USGS	
2013-01-1	6 22:30 UTC	m	72019				D	S	USGS	

Explanation	ı
-------------	---

5	Section	Code	Description
W	/ater-level date-time accuracy	D	Date is accurate to the Day
W	ater-level date-time accuracy	m	Date is accurate to the Minute

Section	Code	Description
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
Status	D	Dry
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals <u>Help</u> **Data Tips** Explanation of terms Subscribe for system changes News

Accessibility FOIA Policies and Notices Privacy

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: 2022-12-06 11:00:44 EST

0.31 0.27 nadww01



LT Environ	mental, Inc.			508 Wes arlsbad, N	ronment It Stevens New Mexi	Street co 8822			Identifier: MWO Project Name: JRU 10	Date: 5/22/19 RP Number: 2RP-3404, 2RP-34 2RP-3179		
/7		LITHO	LOGI	C / SOII	L SAMP			N. Darri	Logged By: BEN BELILL	Method: Lan'C		
	3353	39 703 oride test in		60% error f	GRO, DRO			PH, BTEX, Hole Diameter: Total Depth: 150				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)		Soil/Rock Type		Litholog	y/Remarks		
0	(112	0.5	N	hwol	0]	ı	(SP-5M)	211	y SAND, dry, b ded, t, -m., son	realized, poorly		
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				MARK	12	124		fv	" 1 10 oder	1 (yrear)		

	nmental, Inc.		Ca	508 Wes Irlsbad, N	ronmenta t Stevens lew Mexic	Street co 88220		Project Name. JRU 10	Date 5/27 / 4 RP Number 2RP-3464, 21 2RP-3243
		LITHO			IL BOR	1 1 1 1 1 1 1 1		Logged By: BEN BELILL	Method
Lat/Lon		oride test in			Field Scree	ning: CHLO	ORIDES, TPH, BTI		Total Depth:
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Litholog	y/Remarks
D	Luz	۱, ۲	N	MWOIK	12	12'		7-4	
0	2112	3.8	N	Muo (L	13	13'			
D	KIIZ	4,9	N	mbolm	14	19'			
D	2112	4.8	N	MWO! N	15	15'			
0	<uz< td=""><td>1.1</td><td>N</td><td>MWOLD</td><td>16</td><td>16'</td><td></td><td></td><td></td></uz<>	1.1	N	MWOLD	16	16'			
D	2112	0	N	Muolip	17	17'			
P	(In	4,1	N	Who! C	18	18'	ML 51	ct, day bonlind,	un plastic, no
0	Lin	6.5	N	MUJR	19	19'		edor	
D	(180	1,3	N	MWOIS	20	20'			
O	cisc	9.2	N	MW0 (T	21	21'			
D	(112	7.4	N	MUSIU	22	71'			
0	4112	5,1	٨	muloiv	23	73'			
				4	24	2.		V	

Athyris	nmental, Inc.			LT Envi 508 Wes Carlsbad, I		s Street ico 88220		Project Name: JRU 10	Date: 5/22/4 RP Number 2RP-3464, 2RP-317 2RP-3243				
-17		LITH	IOLO	GIC / SO				Logged By: BEN BELILL H, BTEX, Hole Diameter	Method Total Depth				
at/Long		oride test	include a	a 60% error f	GRO, MR	O, and DRC		6 Finance	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Litholog	Lithology/Remarks				
0	<112	6.5	M	M Jown	24]	174	ML	544					
Ð	Cur	4.6	N	Muol X	25	251							
p	(in	5.1	N	wel &	26	26'							
D	LIL	9.4	N	MWOI Z	27	27'							
0	£112	0.8	N	onlo 1 AA	28	er							
D	2112		N	muol AC	1	29							
	- 1			Mws IAC		- 1							
0	<112			MUDIA	+	31							
	(III			MUDI AE	1	32							
				MWO (AF	1								
				MWO/AG	‡	- /							
4	1120	٥.	$^{\prime}$	awo (AH	35	35							
					36	*	1	7					

Released to Imaging: 3/17/2023 8:09:32 AM

LT Environm	Marga-6		Ca	508 Wes rlsbad, N		al, Inc. Street co 88220 Remedi			ect Name:	Date: 5/2 Z / 4 - 4 RP Number 2RP-346 2RP-3243	
		LITHO	DLOG	IC /SO		ING LO			ged By: BEN BELILL	Method.	
at/Long:	All Chic	oride test in	clude a 6	0% error f	GRO, MR	O, and DRO	ORIDES, TPH).	I, BIEX, Hol	e Diameter 6.15"	Total Depth:	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)		Soil/Rock Type		Lithol	ogy/Remarks	
0	(112	0.1	N	Pewol A	F 36	36	CL	silty C	LAY, dry, re	ed/bra, low pla	stick
0	4112	0.0	N	MW (A	5°37 .	37		100	dor.		
0	4112	1.5	~	Mario A	¢ 38	38					
D	4112	6.0	N	mwl /	L 39	35					
D	LIIZ	0.0	N	muoi	m 40	40					
0	KIIZ	0-0	N	MwolA	₩ 41	41					
0	2112	1.4	N	mwo 1 /	40 42	42					
9	(112	7.8	V	mwa(A	¢ 43	43					
۵	K112	1.8	N	must :	AQ 44	· yu					
P	4117	2.5	N	Mub()	4R 45	43					
0	4/17	1-9	N	MW) ()	46	46					
0	1112	2.0	N	mue (t	T 47	47					

LT Environ	mental, inc.		Ca		t Stevens lew Mexi			Project Name: JRU 10	Date: 5/2 3/14 RP Number: 2RP-3464, 2RP-31 2RP-3243
		LITHO	LOG	IC /SO	IL BOR	ING LOC	3	Logged By: BEN BELILL	Method:
at/Long ommen	t All Chlo	ride test in	clude a	60% error f	GRO, MR	o, and DRO	ORIDES, TPH	, BTEX, Hole Diameter 6.15"	Total Depth.
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.	Sample Depth	Soil/Rock Type	Litholo	gy/Remarks
0	Linz	0.3	V	MWO (A	48	2/8	CL	silty CAN, dry, 1	ed/bin, low plasticity
D	(112	1.3	Ν	MWO! A	√ 49	44		silty CLAT W/ Cal	ione, dry, red/bray los
D	<112	1.2	N	mrs (A	₩ 50	50		saty CLAY day,	prhy enold ton colone and brazilow plastick,
0	Lin	1.2	N	MUJIA	× 51	51			
D	(112	1.3	~	MUSIA	y 52	52			
D	4112	1.5	4	mus (1	₹ 53	53	t		
D	<112	0.1	N	mus i c	A 54	54			
Q	In	0.3	~	Whol	36 55	55			
0	luz	7,0	N	pwi s	SC 56	56			
Þ	<u~< td=""><td>7.9</td><td>Ņ</td><td>Muol (</td><td>D 57</td><td>57</td><td></td><td></td><td></td></u~<>	7.9	Ņ	Muol (D 57	57			
0	112	38	Ν	mwa I (E 58	58			
Q	×112	2.3	N	W42] (F 59	54			

LT Environ	2 mental, inc.		Ca	508 Wes arlsbad, N					Project Name: JRU 10	Date: 5/2 3/19 RP Number: 2RP-3179, 2RP-3464, 2RP-524:
		LITHO				ING LO	41.27.2		Logged By: BEN BELILL	Method:
at/Long	5	2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10 100	Field Scree	ening: CHLC	ORIDES, TPI	H, BTEX,	Hole Diameter:	Total Depth:
ommen	nt All Chlo	oride test in	clude a 6	50% error f		O, and DRO).			
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.	Sample Depth	Soil/Rock Type		Litholog	y/Remarks
P	4112	28	N	mwole	G 60	60	cl	Sili	ty CLAY, dry, buston, re ad	bin and tow
0	4112	2.9	M	umol 6	H 61	61		ol	esticity, road	br.
P	<1112	7.8	~	mve i 0	1 62	or				
D	2112	3.4	Ŋ	mwo18	5 63	63				
0	euz.	1.6	N	Who!	SK64	- 64				
D	UIZ		N	mwal G		L5				
P	<111Z	4.5	Ν	mwol 3	A 66	66				
P	4112	3.7	Ч	mus) (N 67					
P	< 112	1.9	N	muols	a 68	65				
0	Z112	1.)	N	muolo	P 69	169				
0	cuz	7.3	N	nullB	Q 70	70				
0	(1,2	1.7	N	mulo	R 71	71				
						#	1			

LT Environ	P mental, Inc.			508 Wes	ronmenta t Stevens	Street			1	Vms/	Date 5/23/19	
2	51				lew Mexic ngineering				Project Nam JRU 10	e	RP Number 2RP-3179, 2RP-3464, 2RP-5	5243
		LITH	OLOG	IC / SO	IL BORI	NG LOC	3		Logged By:	BEN BELILL	Method	
at/Long		oride test in	clude a	50% error f	GRO, MRO		ORIDES, TPI	H, BTEX,	Hole Diame	ter	Total Depth	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Ī		Lithology	/Remarks	
₽	2112	3-1	۲	wwo) (5 72	72	LL	Sin	A			
b	Kuz	1,0	V	muoj f	773	73						
D	<117	Id	~	priso 1 B	v 74	74						
D	2112	6.0	N	mwol (V75	75						
D	<112	5.6	N	wmo 1	W 76	76						
D	2112	3.4	1	music	¥ 77	77						
9	<112	1.1	W	mwo) (y 78	78						
P	243	1,2	N	well	₹79	74						
D	2112	2.4	N	rwol C	A 80	80						
				mwa I C		81						
D	K112				ر 82 <u>-</u>	¥2						
D	L112	37	N	mwa (C	0 83	83						
					2,1				1.7			

JI Environ	nental, Inc.		Ca	508 Wes arlsbad, N		al, Inc. Street co 88220	Project Name JRU 10	1	Date: 5/73/19 RP Number: 2RP-3179, 2RP-3464, 2RP-524	
		LITH	OLOG	IC / SO		ING LO		Logged By: BEN B	ELILL	Method:
at/Long						oning CHLO O, and DRO	ORIDES, TPH,	BTEX, Hole Diameter.		Total Depth
ommen	t All Chlo	ride test in	clude a	60% error f		,	7			
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	1	ithology/Re	marks
0	1112	4.9	N	WHO I C	E 18 4	811	CL S	SAA		
٥	4112	1.5	N	MV01 L	F 🎮 65_	85			g'	
D	<112	7.7	N	MWOLL	G 🗖 84	86				
D.	2112	7.4	N	mwol a	H 4 87	87				
Ò	C112	1,6	N	NW31C	1 🖜 88	88				
D	6112	1,1	N	mro la	J € 81	84				
D	CIIZ	0.9	N	MWO (C	K @10	90				
þ	< 11Z	7.6	'n	mulo ic	Lon	41		LA SILY SLAY		profred, low
P	4112	3.8	N	mus I C	M €92	4 t		olastizity, na	020/	
p	<1112	1.4	N	mw>1 C	N - 93	47				
0	:112	1.2	~	mus) C	0 = 44	14				
D	4112	0.8	N	Wno) <	P = 95	45		.		

LT Environ	LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation							Project Name: JRU 10	Date: 5/23/19 RP Number: 2RP-3179, 2RP-3464, 2RP-524
		LITH	OLOG	SIC /SO		2.5		Logged By: BEN BELILL	Method
at/Long					GRO, MR	ening: CHLO O, and DRO	ORIDES, TPH,).	BTEX, Hole Diameter	Total Depth:
ommer	at All Chlo	oride test in	iclude a	60% error f	actor.				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)		Soil/Rock Type	Litholo	ogy/Remarks
P	1112	1-9	N	MNO! C	Q 🔎 96]	96	CL s	ilty CLAY BINI	red, low plastich;
0	Luz	4.2	N	MWO! C	R • 97	47		\	
0	2112	2.2	V	WMO! C	5 248	18			
0	Luz	1.8	N	MWOIC	1 P 12	รา			
Q	Luz	1,1	N	mrol (U 🌰 10g	100'			
0	<112	1,5	N	mwol c	V 🌰 10	101			
D	£07	0.4	N	MWOIC	W 9 150	107			
0	chiz	1,4	N	MWOIC	ו(03	7 123			
D	2112	طدا	N	mw21C	Y - 101	104			
P	6112	0,7	N	Mro(c	Z 🛡 102	105			
	2112	1.3	N	wwo()	A \$106	106			
	1112	0.6	٦	ww.10	56107	107			
				6	Amini				

LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance Engineering Remediation									Project Name: JRU 10	Date: 5 /23 / 9 /5/16 RP Number: 2RP-3179, 2RP-3464, 2RP-5243
		LITHO	DLOG	IC /SO		ING LO		Logged By BEN BELILL	Method	
at/Long					GRO, MR	ening: CHLO O, and DRO		РН, ВТЕХ,	Hole Diameter.	Total Depth:
ommen	t All Chlo	ride test in	clude a 6	50% error f	actor.	H		3		
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)		Soil/Rock Type		Litho	logy/Remarks
D	2112	1.3	N	and 10	C 7210/8	168	CL	SAA		
D	Luz	0.3	N	MW(D	ŋ 73 (d	101		1		
D	LIIZ	0,6	1	mwal (E74 lie	110	5			
D	<1112	0.6	N	mus (f)	F75 II	hi				
D	1117	0,5	N	muoi ()6 76 ki	2 112				
D	<112	3.5	N	muloip	14 77 (1	113				
P	KIIZ	5.3	N	Mulio	J 78 H	1111				
D	K112	1.3	N	mwo C	5 79	115				
0	(112	3.3	N	nwo P	₹ 80	116				
D	<111Z	7.9	N	mue (D	C81	11.7				
D	(112	3,3	N	MV01 ()^\ 82	118				
9	LIIL	4,8	4	MULLD	N 83	1117				
					84	#	1	1		

LT Environ	nental, Inc.			508 Wes	ronment t Stevens	s Street		Ide	entifier M (No l	Date 5/29/19 - 6/3/19	
2	Total Control		Ca	rlsbad, N	lew Mexi	ico 88220 g Remedi			Project Name JRU 10		RP Number 2RP-3404, 2RP-3464 2RP-3179	
		LITHO	LOGIC	C /SOII		LING LO			gged By BE	N BELILL	Method	
Lat/Long						ening: CHLO	ORIDES, TPH, O.		ole Diameter 15"		Total Depth	
Comment	All Chlo	oride test in	clude a	60% error f								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type			Lithology/I	Remarks	
D	Luz	3.8	~	Mubi Do	120	120	4L	SAA				
P	<112	3.1	N	MANOR OF	121	121						
D	4112	12	~	mwo) DG	122	722						
0	<112	0,4	N	WW-108	123	1 2 3						
0	TIIS	0.5	N	MV0135	124	124						
- 0	ζωι	0,6	N	DIENUS D	T125	175						
0	<111L	0.8	N	WOI D	V 126	126						
0	<112	0.7	h	mwo) ii	√127	177	,					
D	<112	10	~	awai D	₩128	128						
					χ 129	I						
				1	1	130						
ŋ	<112	1.1	N	Ulemu	2 131	131						
					132	+						

	LT Environ	mental, Inc.		Ca	508 Wes arlsbad, I	ronment st Stevens New Mexi	Identifier: MVD(Project Name: JRU 10	Date: 6/3/19 - 6/4/19 RP Number: 2RP-3404, 2RP-3-2RP-3179		
		- 1	LITHO	LOGIC	C / SOI	L SAMP	LING LO	OG	Logged By: BEN BELILL	Method:
	Lat/Long					A CONTRACTOR OF THE PARTY OF TH	ening: CHLC	ORIDES, TPH, BTE.	K, Hole Diameter: 6.15"	Total Depth:
-	Commen	t All Chlo	oride test in	clude a	60% error i	factor				
	Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Litholog	y/Remarks
-	0	(112	0.4	N	WHOLE	A 132	172	CL .	SAA	
	Ø	4112	0.7	Ν	WMOI È	B133	133			
	0	ないZ	0,4	N	MWOIE	C134	134			
	D	Luc	0.9	Ŋ	MWO (E	0135	135			
	D	(I'Z	0.6	N	WADI	Ę136	136			
,,	0	SIIZ		'n	MWIE	F 137	137			
-	-	1110	0.7						A.	
-	D		1.0	~	Myo) f	5138	138			4, It brofred, low
00		luz				€ 6138 € H139	#		Ay wy gravel, dr. esticity, no oclo.	
20	0	luz	0.1	~	MWOIG		134	CL CL	esticity, no oclo.	brown Med, low
00 35	0	(112	0.1	~	mvol (∰139	134	CL CL	ABB Silty CLAY	brown Med, low
000 35 60 5	0	(112 (112 (112	1.0 0.1 3.8	~ ~	WAS E	H139	134	CL CL	ABB Silty CLAY	brown Med, low
00 35 10	0 0 0	6112 6112 6112 6112	1.0 0.1 3.8 3.5	~ ~ ~ ~	WAD!	€ ¥139	134	CL CL	ABB Silty CLAY	brown Med, low

Mann	mmental, Inc.			508 Wes arlsbad, N		al, Inc. s Street co 8822 g Remed		Project Name JRU 10	Date 6 / 19 RP Number: 2RP-3404, 21 2RP-3179
		LITHO	LOGI	C /SOII		LING L		Logged By: BEN BELILL	Method .
Lat/Long					GRO, DRO	oning: CHL	ORIDES, TPH, BTEX, O.	Hole Diameter: 6.15"	Total Depth:
Commer	nt All Chlo	oride test in	clude a	60% error f	actor.				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Litholog	y/Remarks
9	4112	3.5	N	WAN E	w •	144	CL S	NA	
b	\u2	3,2	٨	WAGIE	N ● _	145			
D	112	2.7	Α,	wwo 1 E	b • _	146			
D	<1172	3.1	N	WASI E	₹ 0 _	147			
D	(112	3.0	N	WANG	Q • _	ાપજ			
P	1112	1.8	h	WA91 E	R • _	149			
D	<112	1.5	4	WOIE	50	150	1 1	<u></u>	
					7 _ - 8 _ - 9			FORG	ē 150°
N					10 _				



APPENDIX B

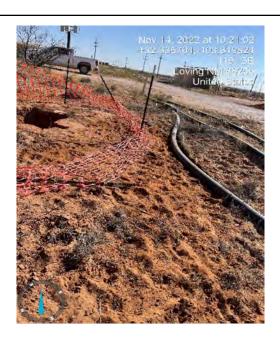
Photographic Log



Photographic Log

XTO Energy, Inc.
JRU 17 CTB
Incident No. NAPP2226628060





Photograph: 1 Date: 11/10/2022

 $\label{lem:description: Staining observed during assessment.} \\$

View: Southwest

Photograph: 2 Date: 11/14/2022 Description: Staining observed during assessment.

View: Southeast





Photograph: 3 Date: 11/21/2022

Description: Photo of delineation sampling.

View: Northwest

Photograph: 4 Date: 11/21/2022

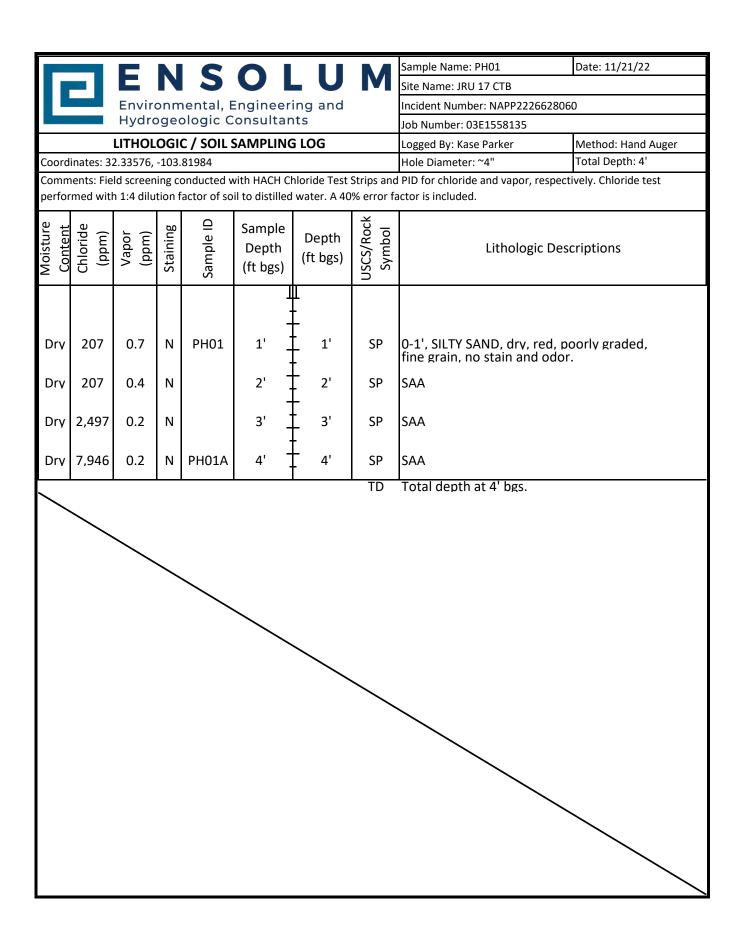
Description: Photo of delineation sampling.

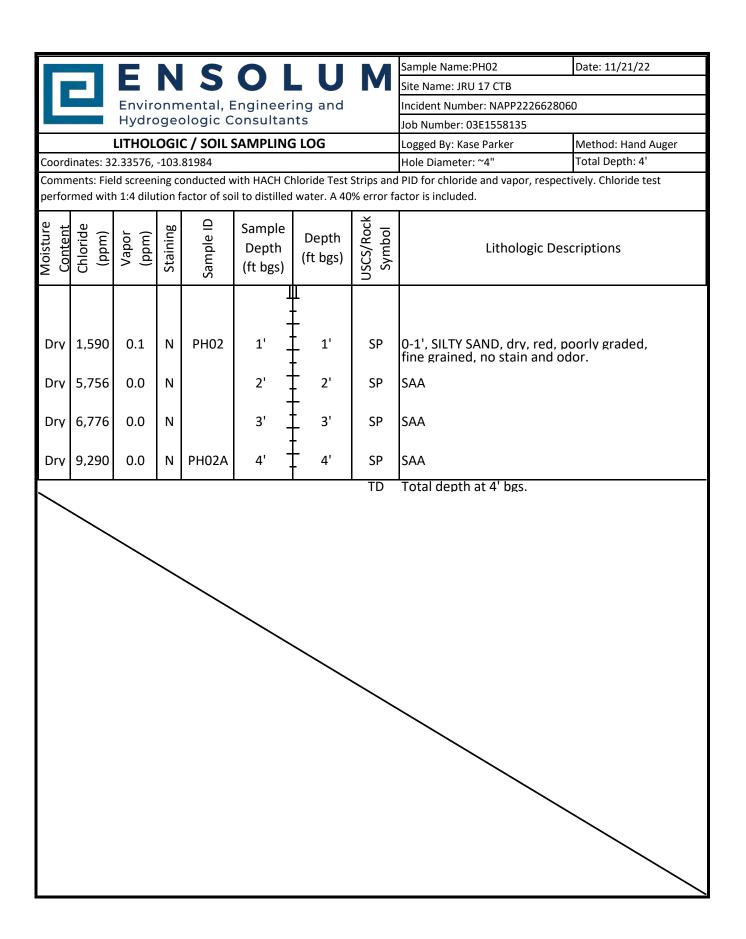
View: Southeast

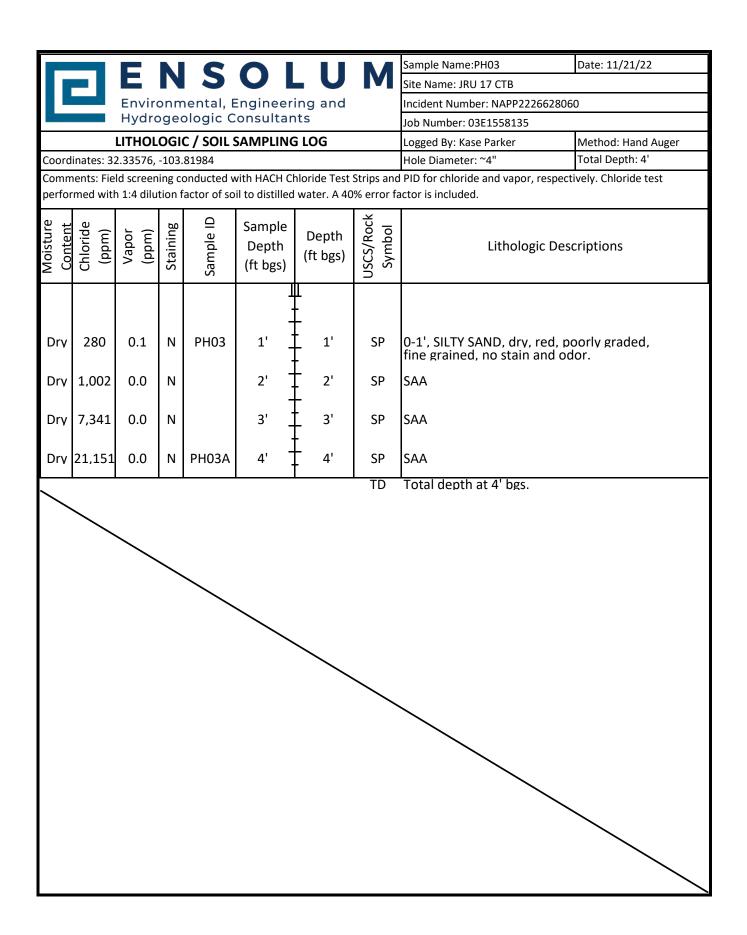


APPENDIX C

Lithologic Soil Sampling Logs









APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 12/1/2022 1:03:25 PM

JOB DESCRIPTION

JRU 17 CTB SDG NUMBER 03E1558135

JOB NUMBER

890-3541-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 12/1/2022 1:03:25 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 26 12/1/2022 Released to Imaging: 3/17/2023 8:09:32 AM

Client: Ensolum Laboratory Job ID: 890-3541-1 Project/Site: JRU 17 CTB SDG: 03E1558135

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Definitions/Glossary

Job ID: 890-3541-1 Client: Ensolum Project/Site: JRU 17 CTB

SDG: 03E1558135

Qualifiers

GC VOA

Qualifier **Qualifier Description** MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: JRU 17 CTB

Job ID: 890-3541-1 SDG: 03E1558135

3

Job ID: 890-3541-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3541-1

Receipt

The samples were received on 11/21/2022 4:13 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 13.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-3541-1), PH01A (890-3541-2), PH02 (890-3541-3), PH02A (890-3541-4), PH03 (890-3541-5) and PH03A (890-3541-6).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-40555 and analytical batch 880-40657 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH02A (890-3541-4), PH03 (890-3541-5) and PH03A (890-3541-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40353 and analytical batch 880-40348 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH01A (890-3541-2) and PH02 (890-3541-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

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5

-

8

11

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114

Lab Sample ID: 890-3541-1

Job ID: 890-3541-1

Client: Ensolum Project/Site: JRU 17 CTB SDG: 03E1558135

Client Sample ID: PH01 Date Collected: 11/21/22 07:50

Date Received: 11/21/22 16:13 Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/29/22 09:19	11/30/22 19:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/29/22 09:19	11/30/22 19:07	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		11/29/22 09:19	11/30/22 19:07	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402	mg/Kg		11/29/22 09:19	11/30/22 19:07	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		11/29/22 09:19	11/30/22 19:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/29/22 09:19	11/30/22 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130			11/29/22 09:19	11/30/22 19:07	1
1,4-Difluorobenzene (Surr)	110		70 - 130			11/29/22 09:19	11/30/22 19:07	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/01/22 13:42	1
•								
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte	• •	ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
	• •	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/28/22 08:46	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			11/28/22 08:46	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL	mg/Kg		Prepared	11/28/22 08:46 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 11/24/22 11:13	11/28/22 08:46 Analyzed 11/25/22 03:05	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 11/24/22 11:13	11/28/22 08:46 Analyzed 11/25/22 03:05	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 sel Range Orga Result <49.9 <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/24/22 11:13 11/24/22 11:13	11/28/22 08:46 Analyzed 11/25/22 03:05 11/25/22 03:05	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/24/22 11:13 11/24/22 11:13	Analyzed 11/25/22 03:05 11/25/22 03:05	1 Dil Fac 1

Client Sample ID: PH01A Lab Sample ID: 890-3541-2 Date Collected: 11/21/22 08:05

RL

4.98

Unit

mg/Kg

D

Prepared

Analyzed

11/28/22 20:28

Dil Fac

Matrix: Solid

Date Received: 11/21/22 16:13

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

189

Sample Depth: 4'

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:19	11/30/22 19:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:19	11/30/22 19:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:19	11/30/22 19:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/29/22 09:19	11/30/22 19:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:19	11/30/22 19:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/29/22 09:19	11/30/22 19:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			11/29/22 09:19	11/30/22 19:27	1

Lab Sample ID: 890-3541-2

Client Sample Results

Client: Ensolum Job ID: 890-3541-1 Project/Site: JRU 17 CTB SDG: 03E1558135

Client Sample ID: PH01A

Date Collected: 11/21/22 08:05 Date Received: 11/21/22 16:13

Sample Depth: 4'

Method: SW846 8021B	- Volatile Organic	Compounds (GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	108	70 - 130	11/29/22 09:19	11/30/22 19:27	

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/01/22 13:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/28/22 08:46	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/22 11:13	11/25/22 03:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/22 11:13	11/25/22 03:26	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/22 11:13	11/25/22 03:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepa	red	Analyzed	Dil Fac
1-Chlorooctane	1	S1-	70 - 130	11/24/22	11:13 1	11/25/22 03:26	1
o-Terphenyl	2	S1-	70 - 130	11/24/22	11:13 1	11/25/22 03:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5630	50.0	mg/Kg			11/28/22 20:48	10

Client Sample ID: PH02 Lab Sample ID: 890-3541-3 **Matrix: Solid**

Date Collected: 11/21/22 11:00 Date Received: 11/21/22 16:13

Sample Depth: 1'

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

momous official course	no organio comp	ounus (SS)	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:19	11/30/22 19:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:19	11/30/22 19:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:19	11/30/22 19:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/29/22 09:19	11/30/22 19:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:19	11/30/22 19:48	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/29/22 09:19	11/30/22 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			11/29/22 09:19	11/30/22 19:48	1
1 4 Diffuorabanzana (Surr)	111		70 120			11/20/22 00:10	11/20/22 10:49	1

۱	Surrogate	%Recovery	Quaimer	Limits	Prepared	Anaryzea	DII Fac
	4-Bromofluorobenzene (Surr)	89		70 - 130	11/29/22 09:15	11/30/22 19:48	1
	1,4-Difluorobenzene (Surr)	111		70 - 130	11/29/22 09:19	11/30/22 19:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/01/22 13:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/28/22 08:46	1

Lab Sample ID: 890-3541-3

Client: Ensolum Job ID: 890-3541-1 Project/Site: JRU 17 CTB SDG: 03E1558135

Client Sample ID: PH02

Date Collected: 11/21/22 11:00 Date Received: 11/21/22 16:13

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		11/24/22 11:13	11/25/22 03:47	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		11/24/22 11:13	11/25/22 03:47	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/24/22 11:13	11/25/22 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	0.1	S1-	70 - 130			11/24/22 11:13	11/25/22 03:47	1
o-Terphenyl	0.5	S1-	70 - 130			11/24/22 11:13	11/25/22 03:47	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - S	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: PH02A Lab Sample ID: 890-3541-4 Date Collected: 11/21/22 11:15 Matrix: Solid

Date Received: 11/21/22 16:13

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:19	11/30/22 20:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:19	11/30/22 20:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:19	11/30/22 20:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/29/22 09:19	11/30/22 20:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:19	11/30/22 20:08	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/29/22 09:19	11/30/22 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			11/29/22 09:19	11/30/22 20:08	1
1,4-Difluorobenzene (Surr)	118		70 - 130			11/29/22 09:19	11/30/22 20:08	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/01/22 13:42	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/28/22 08:46	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/22 11:13	11/25/22 04:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/22 11:13	11/25/22 04:09	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/22 11:13	11/25/22 04:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	0.02	S1-	70 - 130			11/24/22 11:13	11/25/22 04:09	1
o-Terphenyl		S1-	70 - 130			11/24/22 11:13	11/25/22 04:09	1

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12/1/2022

Lab Sample ID: 890-3541-4

Client Sample Results

 Client: Ensolum
 Job ID: 890-3541-1

 Project/Site: JRU 17 CTB
 SDG: 03E1558135

Client Sample ID: PH02A

Date Collected: 11/21/22 11:15 Date Received: 11/21/22 16:13

Sample Depth: 4'

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - So	luble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6570		50.5	mg/Kg			11/28/22 21:01	10

Client Sample ID: PH03

Lab Sample ID: 890-3541-5

Date Collected: 11/21/22 11:20

Matrix: Solid

Date Collected: 11/21/22 11:20 Date Received: 11/21/22 16:13

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:19	11/30/22 20:29	
Toluene	< 0.00199	U	0.00199	mg/Kg		11/29/22 09:19	11/30/22 20:29	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		11/29/22 09:19	11/30/22 20:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/29/22 09:19	11/30/22 20:29	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		11/29/22 09:19	11/30/22 20:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/29/22 09:19	11/30/22 20:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			11/29/22 09:19	11/30/22 20:29	1
1,4-Difluorobenzene (Surr)	109		70 - 130			11/29/22 09:19	11/30/22 20:29	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/01/22 13:42	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/28/22 08:46	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/22 11:13	11/25/22 04:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/22 11:13	11/25/22 04:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/22 11:13	11/25/22 04:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	0.02	S1-	70 - 130			11/24/22 11:13	11/25/22 04:30	1
1-Chlorooctane	0.02							
		S1-	70 - 130			11/24/22 11:13	11/25/22 04:30	1
1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anions	0.2					11/24/22 11:13	11/25/22 04:30	1
o-Terphenyl	0.2			Unit	D	11/24/22 11:13 Prepared	11/25/22 04:30 Analyzed	Dil Fac

Lab Sample ID: 890-3541-6

Client Sample Results

 Client: Ensolum
 Job ID: 890-3541-1

 Project/Site: JRU 17 CTB
 SDG: 03E1558135

Client Sample ID: PH03A

Date Collected: 11/21/22 11:35 Date Received: 11/21/22 16:13

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:19	11/30/22 20:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:19	11/30/22 20:49	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		11/29/22 09:19	11/30/22 20:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/29/22 09:19	11/30/22 20:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:19	11/30/22 20:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/29/22 09:19	11/30/22 20:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			11/29/22 09:19	11/30/22 20:49	1
1,4-Difluorobenzene (Surr)	118		70 - 130			11/29/22 09:19	11/30/22 20:49	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/01/22 13:42	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/28/22 08:46	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL					
Gasoline Range Organics				Unit	D	Prepared	Analyzed	Dil Fac
5 5	<49.9	U	49.9	<mark>Unit</mark> mg/Kg	D	Prepared 11/24/22 11:13	Analyzed 11/25/22 04:52	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9 <49.9				<u>D</u>			1
(GRO)-C6-C10		U	49.9	mg/Kg	<u>D</u>	11/24/22 11:13	11/25/22 04:52	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U U	49.9	mg/Kg	<u> </u>	11/24/22 11:13	11/25/22 04:52 11/25/22 04:52	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9	U U Qualifier	49.9 49.9 49.9	mg/Kg	<u>D</u>	11/24/22 11:13 11/24/22 11:13 11/24/22 11:13	11/25/22 04:52 11/25/22 04:52 11/25/22 04:52	1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 **Recovery 0.003	U U Qualifier	49.9 49.9 49.9 <i>Limits</i>	mg/Kg	<u>D</u>	11/24/22 11:13 11/24/22 11:13 11/24/22 11:13 Prepared	11/25/22 04:52 11/25/22 04:52 11/25/22 04:52 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 %Recovery 0.003 0.2	U Qualifier S1- S1-	49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u> </u>	11/24/22 11:13 11/24/22 11:13 11/24/22 11:13 Prepared 11/24/22 11:13	11/25/22 04:52 11/25/22 04:52 11/25/22 04:52 Analyzed 11/25/22 04:52	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 **Recovery 0.003 0.2 6, lon Chromato	U Qualifier S1- S1-	49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	11/24/22 11:13 11/24/22 11:13 11/24/22 11:13 Prepared 11/24/22 11:13	11/25/22 04:52 11/25/22 04:52 11/25/22 04:52 Analyzed 11/25/22 04:52	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3541-1

 Project/Site: JRU 17 CTB
 SDG: 03E1558135

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (A
		BFB1	DFBZ1	
Lab Sample ID Cli	ient Sample ID	(70-130)	(70-130)	
890-3541-1 PH	H01	79	110	
890-3541-1 MS PH	H01	88	111	
890-3541-1 MSD PH	H01	91	103	
890-3541-2 PH	H01A	81	108	
890-3541-3 PH	102	89	111	
890-3541-4 PH	H02A	85	118	
890-3541-5 PH	H03	92	109	
890-3541-6 PH	H03A	83	118	
LCS 880-40555/1-A La	b Control Sample	85	110	
LCSD 880-40555/2-A La	b Control Sample Dup	83	107	
MB 880-40555/5-A Me	ethod Blank	71	108	
MB 880-40657/8 Me	ethod Blank	71	112	
Surrogate Legend				
BFB = 4-Bromofluorobenzene (S	urr)			
DFBZ = 1,4-Difluorobenzene (Su	ırr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-21911-A-1-H MS	Matrix Spike	112	115	
0-21911-A-1-I MSD	Matrix Spike Duplicate	118	121	
0-3541-1	PH01	100	111	
0-3541-2	PH01A	1 S1-	2 S1-	
0-3541-3	PH02	0.1 S1-	0.5 S1-	
0-3541-4	PH02A	0.02 S1-	0.2 S1-	
0-3541-5	PH03	0.02 S1-	0.2 S1-	
0-3541-6	PH03A	0.003 S1-	0.2 S1-	
S 880-40353/2-A	Lab Control Sample	94	104	
SD 880-40353/3-A	Lab Control Sample Dup	85	92	
3 880-40353/1-A	Method Blank	146 S1+	168 S1+	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3541-1 SDG: 03E1558135 Project/Site: JRU 17 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40555/5-A

Matrix: Solid Analysis Batch: 40657 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40555

 ИB	MB	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:19	11/30/22 18:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:19	11/30/22 18:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:19	11/30/22 18:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 09:19	11/30/22 18:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:19	11/30/22 18:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 09:19	11/30/22 18:38	1

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71	70 - 130	11/29/22 09:19	11/30/22 18:38	1
1,4-Difluorobenzene (Surr)	108	70 - 130	11/29/22 09:19	11/30/22 18:38	1

Lab Sample ID: LCS 880-40555/1-A

Matrix: Solid

Analysis Batch: 40657

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40555

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1083		mg/Kg		108	70 - 130	
Toluene	0.100	0.1113		mg/Kg		111	70 - 130	
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	0.200	0.1903		mg/Kg		95	70 - 130	
o-Xylene	0.100	0.09383		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-40555/2-A

Matrix: Solid

Analysis Batch: 40657

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40555

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09982		mg/Kg		100	70 - 130	8	35	
Toluene	0.100	0.1053		mg/Kg		105	70 - 130	6	35	
Ethylbenzene	0.100	0.09979		mg/Kg		100	70 - 130	7	35	
m-Xylene & p-Xylene	0.200	0.1780		mg/Kg		89	70 - 130	7	35	
o-Xylene	0.100	0.08708		mg/Kg		87	70 - 130	7	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-3541-1 MS

Matrix: Solid

Analysis Batch: 40657

Client Sample ID: PH01 Prep Type: Total/NA

Prep Batch: 40555

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.1041		mg/Kg		104	70 - 130	
Toluene	<0.00201	U	0.100	0.1058		mg/Kg		106	70 - 130	

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Released to Imaging: 3/17/2023 8:09:32 AM

QC Sample Results

Client: Ensolum Job ID: 890-3541-1 Project/Site: JRU 17 CTB SDG: 03E1558135

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

Lab Sample ID: 890-3541-1 MS **Client Sample ID: PH01 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 40657 Prep Batch: 40555

mpie Sampie	Spike	IVIS	IVIS				%Rec
esult Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
0201 U	0.100	0.1027		mg/Kg		103	70 - 130
0402 UF1	0.200	0.1471		mg/Kg		74	70 - 130
0201 U	0.100	0.08940		mg/Kg		89	70 - 130
)	Result Qualifier 00201 U	Result 00201 Qualifier Added 0.100 00202 U 0.100 00402 U F1 0.200	Result 00201 Qualifier Added 0.100 Result 0.1027 00402 U F1 0.200 0.1471	desult opening Qualifier Added opening Result opening Qualifier 00201 U 0.100 0.1027 00402 U F1 0.200 0.1471	Result 00201 Qualifier Added 0.100 Result 0.1027 Qualifier 0.102 Unit mg/Kg 00402 U F1 0.200 0.1471 mg/Kg	Result 00201 Qualifier Unit 0.100 Added 0.1027 Qualifier Unit mg/Kg D mg/Kg 00402 U F1 0.200 0.1471 mg/Kg	Result 00201 Qualifier Added 0.100 Result 0.1027 Qualifier mg/Kg D %Rec mg/Kg %Rec mg/Kg 00402 U F1 0.200 0.1471 mg/Kg 74

MS MS

Surrogate	%Recovery Qu	alifier Limits
4-Bromofluorobenzene (Surr)	88	70 - 130
1,4-Difluorobenzene (Surr)	111	70 - 130

Lab Sample ID: 890-3541-1 MSD **Client Sample ID: PH01 Matrix: Solid** Prep Type: Total/NA Analysis Batch: 40657 Prep Batch: 40555

Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00201	U	0.0998	0.08692		mg/Kg		87	70 - 130	18	35
<0.00201	U	0.0998	0.09156		mg/Kg		92	70 - 130	14	35
<0.00201	U	0.0998	0.09170		mg/Kg		92	70 - 130	11	35
<0.00402	U F1	0.200	0.1310	F1	mg/Kg		66	70 - 130	12	35
<0.00201	U	0.0998	0.08143		mg/Kg		81	70 - 130	9	35
	Result <0.00201 <0.00201 <0.00201 <0.00201 <0.00402	<0.00201 U <0.00201 U <0.00402 U F1	Result Qualifier Added <0.00201	Result Qualifier Added Result <0.00201	Result Qualifier Added Result Qualifier <0.00201	Result Qualifier Added Result Qualifier Unit <0.00201	Result Qualifier Added Result Qualifier Unit D <0.00201	Result Qualifier Added Result Qualifier Unit D %Rec <0.00201	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00201	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <0.00201

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 91 1,4-Difluorobenzene (Surr) 70 - 130 103

Lab Sample ID: MB 880-40657/8 Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 40657

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			11/30/22 12:15	1
Toluene	<0.00200	U	0.00200	mg/Kg			11/30/22 12:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			11/30/22 12:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			11/30/22 12:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			11/30/22 12:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			11/30/22 12:15	1

MB MB Qualifier Limits Prepared Analyzed Dil Fac Surrogate %Recovery 4-Bromofluorobenzene (Surr) 70 - 130 71 11/30/22 12:15 112 70 - 130 11/30/22 12:15 1,4-Difluorobenzene (Surr)

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

Lab Sample ID: MB 880-40353/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 40348 Prep Batch: 40353 мв мв

Result Qualifier RL Unit Prepared <50.0 U 50.0 mg/Kg 11/24/22 11:13 11/24/22 19:56 Gasoline Range Organics (GRO)-C6-C10

 Client: Ensolum
 Job ID: 890-3541-1

 Project/Site: JRU 17 CTB
 SDG: 03E1558135

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

Lab Sample ID: MB 880-40353/1-A

Matrix: Solid

Analysis Batch: 40348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40353

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/22 11:13	11/24/22 19:56	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/22 11:13	11/24/22 19:56	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130			11/24/22 11:13	11/24/22 19:56	1
o-Terphenyl	168	S1+	70 - 130			11/24/22 11:13	11/24/22 19:56	1

_										
Lab Sample ID: LCS 880-40	353/2-A						Client	Sample	ID: Lab Contro	ol Sample
Matrix: Solid									Prep Type	: Total/NA
Analysis Batch: 40348									Prep Bat	ch: 40353
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	915.4		mg/Kg		92	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over			1000	956.3		mg/Kg		96	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	94		70 - 130							
o-Terphenyl	104		70 - 130							

Matrix: Solid							Prep ⁻	Гуре: То	tal/NA
Analysis Batch: 40348							Prep	Batch:	40353
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	987.4		mg/Kg		99	70 - 130	8	20
Diesel Range Organics (Over	1000	994.1		mg/Kg		99	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	994.1		mg/Kg		99	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	92		70 - 130

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Lab Sample ID: 880-21911-A Matrix: Solid Analysis Batch: 40348	A-1-H MS							Client	Prep 1	: Matrix Spike Type: Total/NA Batch: 40353
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1034		mg/Kg		100	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	999	841.0		mg/Kg		84	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	112		70 - 130							

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Client Sample ID: Lab Control Sample Dup

70 - 130

o-Terphenyl

Lab Sample ID: LCSD 880-40353/3-A

Job ID: 890-3541-1 Client: Ensolum Project/Site: JRU 17 CTB SDG: 03E1558135

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

Lab Sample ID: 880-21911-A-1-I MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 40348 Prep Type: Total/NA Prep Batch: 40353

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: PH01

Client Sample ID: PH01

Prep Type: Soluble

Prep Type: Soluble

Sample Sample Spike MSD MSD RPD Limit Result Qualifier RPD Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 997 1072 mg/Kg 104 70 - 130 4 20 (GRO)-C6-C10 997 Diesel Range Organics (Over <50.0 U 878.1 mg/Kg 88 70 - 130 4

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	121		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40371/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40439

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/28/22 20:08	1

Lab Sample ID: LCS 880-40371/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40439

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	265.7	,	mg/Kg		106	90 - 110	

Lab Sample ID: LCSD 880-40371/3-A

Matrix: Solid

Analysis Batch: 40439

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier I	Unit D	%Rec	Limits	RPD	Limit
Chloride	250	267.9		mg/Kg	107	90 - 110	1	20

Lab Sample ID: 890-3541-1 MS

Matrix: Solid

Analysis Batch: 40439

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	189		249	440.2		ma/Ka		101	90 110	

Lab Sample ID: 890-3541-1 MSD

Matrix: Solid

Analysis Ratch: 40439

Alialysis balcii. 40439											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	189		249	437.5		mg/Kg		100	90 - 110	1	20

QC Association Summary

 Client: Ensolum
 Job ID: 890-3541-1

 Project/Site: JRU 17 CTB
 SDG: 03E1558135

GC VOA

Prep Batch: 40555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3541-1	PH01	Total/NA	Solid	5035	
890-3541-2	PH01A	Total/NA	Solid	5035	
890-3541-3	PH02	Total/NA	Solid	5035	
890-3541-4	PH02A	Total/NA	Solid	5035	
890-3541-5	PH03	Total/NA	Solid	5035	
890-3541-6	PH03A	Total/NA	Solid	5035	
MB 880-40555/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40555/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40555/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3541-1 MS	PH01	Total/NA	Solid	5035	
890-3541-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 40657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3541-1	PH01	Total/NA	Solid	8021B	40555
890-3541-2	PH01A	Total/NA	Solid	8021B	40555
890-3541-3	PH02	Total/NA	Solid	8021B	40555
890-3541-4	PH02A	Total/NA	Solid	8021B	40555
890-3541-5	PH03	Total/NA	Solid	8021B	40555
890-3541-6	PH03A	Total/NA	Solid	8021B	40555
MB 880-40555/5-A	Method Blank	Total/NA	Solid	8021B	40555
MB 880-40657/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-40555/1-A	Lab Control Sample	Total/NA	Solid	8021B	40555
LCSD 880-40555/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40555
890-3541-1 MS	PH01	Total/NA	Solid	8021B	40555
890-3541-1 MSD	PH01	Total/NA	Solid	8021B	40555

Analysis Batch: 40804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3541-1	PH01	Total/NA	Solid	Total BTEX	
890-3541-2	PH01A	Total/NA	Solid	Total BTEX	
890-3541-3	PH02	Total/NA	Solid	Total BTEX	
890-3541-4	PH02A	Total/NA	Solid	Total BTEX	
890-3541-5	PH03	Total/NA	Solid	Total BTEX	
890-3541-6	PH03A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 40348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3541-1	PH01	Total/NA	Solid	8015B NM	40353
890-3541-2	PH01A	Total/NA	Solid	8015B NM	40353
890-3541-3	PH02	Total/NA	Solid	8015B NM	40353
890-3541-4	PH02A	Total/NA	Solid	8015B NM	40353
890-3541-5	PH03	Total/NA	Solid	8015B NM	40353
890-3541-6	PH03A	Total/NA	Solid	8015B NM	40353
MB 880-40353/1-A	Method Blank	Total/NA	Solid	8015B NM	40353
LCS 880-40353/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40353
LCSD 880-40353/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40353
880-21911-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	40353
880-21911-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40353

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QC Association Summary

Client: Ensolum

Project/Site: JRU 17 CTB

Job ID: 890-3541-1 SDG: 03E1558135

GC Semi VOA

Prep Batch: 40353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3541-1	PH01	Total/NA	Solid	8015NM Prep	
890-3541-2	PH01A	Total/NA	Solid	8015NM Prep	
890-3541-3	PH02	Total/NA	Solid	8015NM Prep	
890-3541-4	PH02A	Total/NA	Solid	8015NM Prep	
890-3541-5	PH03	Total/NA	Solid	8015NM Prep	
890-3541-6	PH03A	Total/NA	Solid	8015NM Prep	
MB 880-40353/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40353/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40353/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21911-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-21911-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3541-1	PH01	Total/NA	Solid	8015 NM	
890-3541-2	PH01A	Total/NA	Solid	8015 NM	
890-3541-3	PH02	Total/NA	Solid	8015 NM	
890-3541-4	PH02A	Total/NA	Solid	8015 NM	
890-3541-5	PH03	Total/NA	Solid	8015 NM	
890-3541-6	PH03A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3541-1	PH01	Soluble	Solid	DI Leach	
890-3541-2	PH01A	Soluble	Solid	DI Leach	
890-3541-3	PH02	Soluble	Solid	DI Leach	
890-3541-4	PH02A	Soluble	Solid	DI Leach	
890-3541-5	PH03	Soluble	Solid	DI Leach	
890-3541-6	PH03A	Soluble	Solid	DI Leach	
MB 880-40371/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40371/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40371/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3541-1 MS	PH01	Soluble	Solid	DI Leach	
890-3541-1 MSD	PH01	Soluble	Solid	DI Leach	

Analysis Batch: 40439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3541-1	PH01	Soluble	Solid	300.0	40371
890-3541-2	PH01A	Soluble	Solid	300.0	40371
890-3541-3	PH02	Soluble	Solid	300.0	40371
890-3541-4	PH02A	Soluble	Solid	300.0	40371
890-3541-5	PH03	Soluble	Solid	300.0	40371
890-3541-6	PH03A	Soluble	Solid	300.0	40371
MB 880-40371/1-A	Method Blank	Soluble	Solid	300.0	40371
LCS 880-40371/2-A	Lab Control Sample	Soluble	Solid	300.0	40371
LCSD 880-40371/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40371
890-3541-1 MS	PH01	Soluble	Solid	300.0	40371
890-3541-1 MSD	PH01	Soluble	Solid	300.0	40371

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Lab Chronicle

Client: Ensolum Job ID: 890-3541-1 Project/Site: JRU 17 CTB SDG: 03E1558135

Client Sample ID: PH01

Date Collected: 11/21/22 07:50 Date Received: 11/21/22 16:13

Lab Sample ID: 890-3541-1

Matrix: Solid

	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	40555	11/29/22 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40657	11/30/22 19:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40804	12/01/22 13:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			40382	11/28/22 08:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40353	11/24/22 11:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40348	11/25/22 03:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40371	11/28/22 08:37	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40439	11/28/22 20:28	CH	EET MID

Client Sample ID: PH01A Lab Sample ID: 890-3541-2

Date Collected: 11/21/22 08:05 Matrix: Solid

Date Received: 11/21/22 16:13

	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	40555	11/29/22 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40657	11/30/22 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40804	12/01/22 13:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			40382	11/28/22 08:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40353	11/24/22 11:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40348	11/25/22 03:26	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40371	11/28/22 08:37	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	40439	11/28/22 20:48	CH	EET MID

Client Sample ID: PH02 Lab Sample ID: 890-3541-3 Date Collected: 11/21/22 11:00

Date Received: 11/21/22 16:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40555	11/29/22 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40657	11/30/22 19:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40804	12/01/22 13:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			40382	11/28/22 08:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40353	11/24/22 11:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40348	11/25/22 03:47	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40371	11/28/22 08:37	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40439	11/28/22 20:55	CH	EET MID

Client Sample ID: PH02A Lab Sample ID: 890-3541-4

Date Collected: 11/21/22 11:15 Date Received: 11/21/22 16:13

	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	40555	11/29/22 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40657	11/30/22 20:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40804	12/01/22 13:42	SM	EET MID

Eurofins Carlsbad

Matrix: Solid

Page 18 of 26

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-3541-1 Project/Site: JRU 17 CTB SDG: 03E1558135

Client Sample ID: PH02A

Date Received: 11/21/22 16:13

Lab Sample ID: 890-3541-4 Date Collected: 11/21/22 11:15

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 40382 Analysis 11/28/22 08:46 SM EET MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 40353 11/24/22 11:13 AM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 40348 11/25/22 04:09 SM EET MID Soluble DI Leach 50 mL 40371 11/28/22 08:37 СН EET MID Leach 4.95 g 300.0 40439 11/28/22 21:01 Soluble Analysis 10 50 mL 50 mL СН EET MID

Client Sample ID: PH03 Lab Sample ID: 890-3541-5

Date Collected: 11/21/22 11:20 **Matrix: Solid**

Date Received: 11/21/22 16:13

	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	40555	11/29/22 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40657	11/30/22 20:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40804	12/01/22 13:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			40382	11/28/22 08:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	40353	11/24/22 11:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40348	11/25/22 04:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40371	11/28/22 08:37	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40439	11/28/22 21:08	CH	EET MID

Client Sample ID: PH03A Lab Sample ID: 890-3541-6

Date Collected: 11/21/22 11:35

Date Received: 11/21/22 16:13

	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	40555	11/29/22 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40657	11/30/22 20:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40804	12/01/22 13:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			40382	11/28/22 08:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40353	11/24/22 11:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40348	11/25/22 04:52	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40371	11/28/22 08:37	СН	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	40439	11/28/22 21:28	CH	EET MID

Laboratory References:

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

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3541-1 Project/Site: JRU 17 CTB SDG: 03E1558135

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	It the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.	•	, , ,	·, ·····
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	,
0 ,		Matrix Solid	Analyte Total TPH	

Method Summary

Job ID: 890-3541-1 Client: Ensolum Project/Site: JRU 17 CTB

SDG: 03E1558135

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: JRU 17 CTB

Job ID: 890-3541-1 SDG: 03E1558135

h			

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3541-1	PH01	Solid	11/21/22 07:50	11/21/22 16:13	1'
890-3541-2	PH01A	Solid	11/21/22 08:05	11/21/22 16:13	4'
890-3541-3	PH02	Solid	11/21/22 11:00	11/21/22 16:13	1'
890-3541-4	PH02A	Solid	11/21/22 11:15	11/21/22 16:13	4'
890-3541-5	PH03	Solid	11/21/22 11:20	11/21/22 16:13	1'
890-3541-6	PH03A	Solid	11/21/22 11:35	11/21/22 16:13	4'

4

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10

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12

of service. Eurofins Xenco will be llable only for the cost of samples and shall not assume any responsibility f of Eurofins Xe<u>ncer →</u> minimum charge of \$86.00 will be applied to each project and a charge of \$5 for each san

Refinquished by

(Signature)

Received by: (Signature)

the same

ee 12/ Date/Time

BI

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020 2

eurofins

Xenco

Environment Testing

13 14

Chain of Custody

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

Work Order No:

Eurofins Carlsbad

1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199

eurofins Environment Testing

Chain of Custody Record

			emarks	and Other Remarks	ငိ	peratu	Cooler Temperature(s)	Coo						A No	Custody Seals Intact: ∆ Yes ∆ No
Company		Date/Time.				ν,	Received by	Rec		Company			Date/Time:		Relinquished by
Company		Date/Tirhe					Received b	Rec		Company			Date/Time [.]		Relinquished by
Company	1121	Date/Time:	M	25			Received by	Rec		Company			Date/Time		Relinquished by
		Shipment:	Method of Shipment:			//			Time			Date		nquished by:	Empty Kit Relinquished by
			nts	ນC Requirements	s/QC F	rction	Special Instructions/0	pecial	S		2		Primary Deliverable Rank	I III, IV Other (specify)	Deliverable Re
month) Months	may be assessed it samples are retained longer than 1 month) Disposal By Lab Archive For	imples are retain	assessed if san Disposal By Lab	may be a	Return To Client	To C	Return To Client		٥						Unconfirmed
county College FEC									,					Possible Hazard Identification	Possible Haza
ces the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the granlyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to if all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC.	ent is forwarded under er instructions will be partion to the particular of the part	This sample shipme LLC laboratory or oth call complicance to Et	ntract laboratories ing South Central, l	on out subco onment Testi Chain of Cus		compli Eurofi	ditation k to the late, ref	ed bac	halyte 8 e shipp re curr	o of method ar amples must b accreditations a	s the ownership analyzed, the s all requested a	tral LLC place s/matrix being a mmediately If	Testing South Cerve for analysis/test tral, LLC attention	Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliand laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the significant for the status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the significant for the status should be brought to Eurofins Environment Testing South Central International South Central LLC places the ownership of method analyte & accreditations are current to date, return the significant for the status of t	Note: Since laboral laboratory does not accreditation status
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		4			×	×	×	×		Solid		11 00 Mountain	11/21/22	41-3)	PH02 (890-3541-3)
		** **********************************			×	×	×	×		Solid		08 05 Mountain	11/21/22	541-2)	PH01A (890-3541-2)
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Special Instructions/Note:	Special Ins	Te			1	╀-	80	366,830	- 0000000	A=Air)	G=grab)	Time	Sample Date	Sample Identification - Client ID (Lab ID)	Sample Identii
		otal Number c			021B/5035FP_C otal_BTEX_GC\	00_ORGFM_28I	015MOD_Calc	015MOD_NM/80	ield Filtered S erform MS/M:	Matrix (W=water S=solid, O=wasteloil, BT=Tissue,	Sample Type (C=comp,	Sample	Sample Date	fication - Client ID (Lab ID)	Sample Identii
	Other:	of cor							all property and the				SSOW#		Site:
Y Trizma Z other (specify)	K EDTA L EDA	taine			OD) E		,,,,,,	Meldebode	on morning				Project #: 89000093		Project Name JRU 17 CTB
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	G Amchlor					de		D) Fu	0)				PO#		Phone [.] 432-704-5440(Tel)
Q Na2SO3		······································						II TPH	Zaraka Lagraka						State Zip: TX, 79701
	B NaOH C Zn Acetate	(h. v. sh. 3						linas,				ays)	TAT Requested (days)		City: Midland
es: M Hexane	ന്		Requested		Analysis							e.	Due Date Requested 11/29/2022		Address 1211 W Florida Ave,
	Job #: 890-3541-1				e note)	red (Se	Accreditations Required (See NELAP - Texas	Accreditations Requ NELAP - Texas	Accrec NEL/					Eurofins Environment Testing South Centr	Eurofins Enviro
	Page Page 1 of 1		State of Origin New Mexico	ă	sus com	urofin	ь-ман Jessica Kramer@et.eurofinsu	amer	ica K	Jessi			7		Shipping/Receiving
	COC No: 890-1040 1	No(s)	Carrier Tracking No(s)					Kramer Jessica	Jer ⊾	Krame			Sampler	Client Information (Sub Contract Lab)	Client Inform

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3541-1 SDG Number: 03E1558135

Login Number: 3541 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3541-1 SDG Number: 03E1558135

List Source: Eurofins Midland

List Number: 2 Creator: Kramer, Jessica

Login Number: 3541

List Creation: 11/23/22 11:54 AM

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



APPENDIX E

NMOCD Notifications

Collins, Melanie

From: Collins, Melanie

Sent:Friday, September 23, 2022 8:59 AMTo:Morgan, Crisha A; 'CFO_Spill, BLM_NM'Cc:DelawareSpills /SM; Green, Garrett J

Subject: Initial C-141 JRU 17 Central Tank Battery Flow Line release 9-10-22

Attachments: 9-23-22 Initial C-141 JRU 17 CTB release date 9-10-22.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Crisha,

Please see the attached Initial C-141 for the release that occurred on 09/10/2022 between the JRU 17 and 7-30 CTBs. Corrosion caused a release of fluids from a flow line associated with the James Ranch 17 and 7-30 CTBs. A vacuum truck recovered all free fluids. A third-party contractor has been retained for remediation purposes. Please let me know if you have questions or would like additional information concerning this release.

Thank you—and happy Friday!

Melanie Collins

TO ENERGY

Environmental Technician melanie.collins@exxonmobil.com 432-556-3756

From: <u>Green, Garrett J</u>
To: <u>Tacoma Morrissey</u>

Subject: FW: XTO - Sampling Notification (Week of 11/21/22 - 11/25/22)

Date: Friday, November 18, 2022 3:38:40 PM

[**EXTERNAL EMAIL**]

From: Green, Garrett J

Sent: Friday, November 18, 2022 8:52 AM

To: 'ocd.enviro@emnrd.nm.gov' <ocd.enviro@emnrd.nm.gov>; 'Bratcher, Michael, EMNRD' <mike.bratcher@emnrd.nm.gov>; 'Hamlet, Robert, EMNRD' <Robert.Hamlet@emnrd.nm.gov>; 'Harimon, Jocelyn, EMNRD' <Jocelyn.Harimon@emnrd.nm.gov>

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>

Subject: XTO - Sampling Notification (Week of 11/21/22 - 11/25/22)

All,

XTO plans to complete final sampling activities at the following sites the week of Nov 21, 2022.

- JRU 17 CTB/ nAPP2226628060
- BEU 158 / nAPP2230548752
- Ross Draw 2531 TB FIRE/ nAPP2226646920
- Remuda 100 CTB / nAPP2226346738
- West Brushy Fed 33 1H/ nAPP2228753314
- Ross Draw 3031/ nAPP2227244441

Thank you,

Garrett Green

Environmental Coordinator Delaware Business Unit (575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

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

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

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

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

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

CONDITIONS

Action 165745

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	165745
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. The work will need to occur in 90 days after the work plan has been approved.	3/17/2023