Page 6

Oil Conservation Division

Incident ID:	nAB1625254125
District RP:	
Facility ID	
Application ID	

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Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

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

Printed Name: Jim Raley	Title: Environmental Professional
Signature:	Date:
email: jim.raley@dvn.com	Telephone: <u>575-689-7597</u>
OCD Only	
Received by: Jocelyn Harimon	Date: 01/17/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Robert Hamlet	Date: 5/16/2023
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

<u>District II</u> 311 S. First St., <u>District III</u> 1000 Rio Brazo: <u>District IV</u> 1220 S. St. Fran	Dr., Hobbs, M Artesia, NM Is Road, Azteo	88210	ŝ	Sta Energy Mir Oil C 1220 Sa	nerals a Conserv South Inta Fe	vation Div St. Franc , NM 875	l Resources Af Vision is Dr. 05	RECEIV	STRICT	FION Form C-141 Revised August 8, 2011 to appropriate District Office in cordance with 19.15.29 NMAC.
			Rele	ase Notific			orrective A	 `		
Name of Co	mpany	WPX Energy	v Inc/RK	21412	AA	OPERAT	Karolina Blan	ev 🛛	Initia	l Report Final Repor
Address	5315 Bu	ena Vista Di	r.	ATPOP	j	Felephone N	No. 970 589 074			
Facility Nar	ne: Sarago	ossa 16 State	2		F	Facility Typ	e: Well Pad			· · · · · · · · · · · · · · · · · · ·
Surface Ow	ner: State			Mineral C	wner: S	State			API No	30-015- 31584
				LOCA	TION	NOF REI	LEASE			
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/Wes	t Line	County
С	16	235	23E	660	FNL		990	FEL		Eddy
	<u> </u>					Loncitor	le : -104.292438			<u> </u>
			Lł			OF REL		/ ••		
Гуре of Rele	ase. produc	ced water and	condensat				Release: 81 Bbls		Volume	Recovered: 0 Bbls
Source of Re						Date and H 8/23/2016	lour of Occurrence	e		d Hour of Discovery
Tank Battery Was Immedia		Given?				If YES, To	Whom?		8/24/20	16 – 10:45 hrs MT
		\boxtimes	Yes 🗌	No 🔲 Not Re	equired	NMOCD H	leather Patterson	and Micha	el Bratch	er, and SLO Amber Groves.
By Whom? I							lour 8/24/2016 - 1			
Was a Water	course Read		Yes 🛛	No		If YES, Vo N/A	olume Impacting t	he Waterco	ourse.	
		pacted, Descr	-							<u></u>
-	condensat		ausing m	inimal impact to			fluid lost is 81 b	bls (61 bb	ols of co	ndensate and 20 bbls of
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Describe Are The entire s actions, if w in 0-9 colur I hereby certi regulations a public health should their o or the enviro	warranted, w nn of the C ify that the i all operators or the envir operations h onment. In a	will be based Guidelines do information gi are required t ronment. The bave failed to a	l on these ocument. iven above o report an acceptance adequately OCD accept	results. The tot This spill did no is true and comp d/or file certain r te of a C-141 repo investigate and r	al ranki ot impace lete to the elease not ort by the emediate	ng score for et drainages he best of my otifications au NMOCD me contaminati	r this site is 0; th or surface wate knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of t	e site will r. nderstand t tive action eport" does eat to grou responsibil	l be rem that purs s for rele s not reli nd water ity for co	ediated to levels specified uant to NMOCD rules and cases which may endanger eve the operator of liability , surface water, human health ompliance with any other
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Released to Imaging: 5/16/2023 11:27:59 AM	16/2023 11:27:59 AM
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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

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Incident ID:	nAB1625254125
District RP:	
Facility ID	
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Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: jim.raley@dvn.com	Incident # (assigned by OCD): nAB1625254125
Contact mailing address: 5315 Buena Vista Dr., Carlsbad, NM, 8822	20

Location of Release Source

Latitude <u>32.30961139</u>

Longitude _-104.2924387

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Saragossa 16 State 2	Site Type: Well Pad
Date Release Discovered: 8/23/2016	API# (if applicable): 30-015-31584

Unit Letter	Section	Township	Range	County
А	16	238	23E	Eddy

Surface Owner: X State Federal Tribal Private (Name: _

Nature and Volume of Release

Mate	rial(s) Released (Select all that apply and attach calculations or specifi	c justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls):0 Bbls
Produced Water	Volume Released (bbls): 20 Bbls	Volume Recovered (bbls):0 Bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls): 61 Bbls	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Dalaasa		

Cause of Release:

The spill was caused by a lightning strike followed by a fire. Total volume of fluid lost is 81 bbls (61 bbls of condensate and 20 bbls of water). The condensate burnt off causing minimal impact to the environment.

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

	23 4:28:38 PM State of New Mexico		Incident ID:	nAB1625254125			
ige 2	Oil Conservation Division		District RP:	IIAD1023234123			
			Facility ID				
			Application ID				
Was this a major	If YES, for what reason(s) does the res	ponsible party consider	this a major release?]			
release as defined by	The source of the release was greater t						
19.15.29.7(A) NMAC?							
🛛 Yes 🗌 No							
	notice given to the OCD? By whom? To						
Immediate notice was gi by Karolina Blaney on S	ven to NMOCD Heather Patterson and M	ichael Bratcher, and EN	INRD Amber Groves	via email			
by Karonna Blancy on S	eptermoer 7, 2010.						
		_					
	Initial	Response					
The responsible	le party must undertake the following actions immed	iately unless they could creat	e a safety hazard that would	l result in injury			
\mathbf{X} The source of the re	lance has been stonned						
	**	nd the environment					
	-	The impacted area has been secured to protect human health and the environment.					
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.							
		-		t devices.			
All free liquids and	recoverable materials have been removed	and managed appropri-		t devices.			
All free liquids and		and managed appropri-		t devices.			
All free liquids and	recoverable materials have been removed	and managed appropri-		t devices.			
All free liquids and	recoverable materials have been removed	and managed appropri-		t devices.			
All free liquids and	recoverable materials have been removed	and managed appropri-		t devices.			
All free liquids and	recoverable materials have been removed	and managed appropri-		t devices.			
All free liquids and If all the actions describe	recoverable materials have been removed ed above have <u>not</u> been undertaken, expla	and managed appropria	ately.				
All free liquids and If all the actions describe Per 19.15.29.8 B. (4) NR	recoverable materials have been removed ed above have <u>not</u> been undertaken, expla MAC the responsible party may commend	and managed appropria	ately.	f a release. If remediation			
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Received by OCD: 1/17/2023 4:28:38 PM Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID:	nAB1625254125	
District RP:		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>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

Page 3

- 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.

Received by OCD: 1/17/2 Form C-141 Page 4	2023 4:28:38 PM State of New Mexico Oil Conservation Division		Incident ID: District RP: Facility ID Application ID	Page 6 of 54 nAB1625254125
regulations all operators a public health or the enviro failed to adequately invest	formation given above is true and complete to the b re required to report and/or file certain release notif onment. The acceptance of a C-141 report by the Ou tigate and remediate contamination that pose a three e of a C-141 report does not relieve the operator of the ley	ications and perform co CD does not relieve the at to groundwater, surfa responsibility for compl Title: <u>Environmenta</u>	nd understand that pursu rrective actions for relea operator of liability sho ce water, human health iance with any other fee	ases which may endanger uld their operations have or the environment. In
email: <u>jim.raley@dvn.o</u>		Date: <u>1/17/2023</u> Telephone: <u>575-689</u> Date: <u>01/</u>	<u>7597</u> 17/2023	

Page 6

Oil Conservation Division

Incident ID:	nAB1625254125
District RP:	
Facility ID	
Application ID	

Page 7 of 54

Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

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

Printed Name: Jim Raley	Title: Environmental Professional					
Signature:	Date:					
email: jim.raley@dvn.com	Telephone: _575-689-7597					
OCD Only						
Received by: Jocelyn Harimon	Date:01/17/2023					
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.						
Closure Approved by:	Date:					
Printed Name:						



CLOSURE REQUEST REPORT

Site Location:

Saragossa 16 State 2 Eddy County, New Mexico **Incident Number** nAB1625254125

January 17, 2023 Ensolum Project No. 03A1987017

Prepared for:

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

Prepared by:

S. Holy -

Joseph S. Hernandez Senior Geologist

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

Principal

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2.0	SOIL SAMPLING
	2.1 Delineation Activities
3.0	SOIL SAMPLING RESULTS
4.0	CLOSURE REQUEST

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	Figure 2: Delineation Soil Sample Locations
Appendix B:	Well Record & Groundwater Measurement Form
Appendix C:	Photographic Log
Appendix D:	Lithologic Soil Sampling Logs
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Appendix F:	Laboratory Analytical Reports & Chain-of-Custody Documentation
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Appendix G: Email Correspondence and Sampling Notifications



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Saragossa 16 State 2 Closure Request Report Incident Number nAB1625254125 **Page 10 of 54** January 17, 2023

Page 1

1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Closure Request Report (CRR) to document corrective actions and follow up soil sampling activities performed by WPX Energy Permian, LLC (WPX) at the Saragossa 16 State 2 (hereinafter referred to as the "Site") in Unit A, Section 16, Township 23 South, Range 23 East, in Eddy County, New Mexico (**Figure 1** in **Appendix A**). The corrective actions have been completed in accordance with New Mexico Oil and Conservation Division (NMOCD) regulatory requirements and guidelines.

WPX respectfully submits this CRR, which summarizes initial response activities and soil sampling activities for a reportable release of produced water and condensate, then provides field verification of a nearby United States Geological Survey (USGS) well and updated depth to groundwater data for a water well within ½ mile of the Site identified in the New Mexico Office of the State Engineer (NMOSE) database.

1.1 Site Description & Background

The Site is located within Eddy County, New Mexico (32.309611° N, 104.292438° W) and is associated with oil and gas exploration and production operations on State Land (**Figure 1** in **Appendix A**).

On August 23, 2016, lightning struck the facility tank battery, causing a fire and resulting in the release of approximately 20 barrels (bbls) of produced water and 61 bbls condensate within the earthen tank battery containment. The condensate burned off, and no fluids were recovered. The release was a mapped via Global Positioning System (GPS) by WPX and is shown on (**Figure 2** in **Appendix A**). Currently, the tank battery has been rebuilt and relocated northeast of its original location. Ensolum was retained to confirm impacted soil was removed during response and relocation activities.

WPX reported the release to the NMOCD immediately after the discovery via email on August 24, 2016 and with a subsquent Corrective Action Form C-141 (Form C-141) on September 7, 2016. The release was assigned Incident Number nAB1625254125. An updated Form C-141 (current revision August 24, 2018) is provided in this CRR.

1.2 Site Characterization

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

Based on the initial desktop review, it appeared that the closest water well with groundwater data was USGS water well 321826104173801, located 0.17 miles southwest of the Site. The USGS well was presumed to be located on private mining land operated by United Materials, LLP. (United). Ensolum coordinated a field verification visit with United to verify the location of the well. No well was identified during the investigation, which included a visual survey of a 500-foot radius of the documented latitude and longitude. United was unaware of the presence of a well in the area. Therefore, the next closest water well was used to estimate groundwater depth at the Site.

The next closest water well is NMOSE-permitted well C-02395, located approximately 0.32 miles southwest of the Site. Due to the age the last measurement of the well (greater than 25 years old), Ensolum coordinated a visit with the well owner, Justin D. Wilson, on August 15, 2022, to measure groundwater depth. Ensolum advanced a decontamined water level meter, which



utlimately reached the maximum length of 200 feet without detecting water. Groundwater at the Site was confirmed to be greater than 100 feet below ground surface (bgs). The well record and the current Groundwater Measurement Form is provided in **Appendix B.** Photographic documentation during the water well verification and measurement activities is included in **Appendix C**.

The closest surface water or significant watercourse to the Site is a dry streambed, located approximately 5,683 feet west of the Site. The Site is greater than 300 feet from any occupied residence, school, hospital, institution, church, or wetland and, with the absence of the USGS well, greater than 1,000 feet to a freshwater well or spring. The Site is not within a 100-year floodplain. This Site is located in a medium potential karst area.

Based on the results of the Site Characterization and recently measurement of NMOSE well C-02395, the following NMOCD Table 1 Closure Criteria (Closure Criteria) applied:

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

2.0 SOIL SAMPLING ACTIVITIES

2.1 Delineation Activities

Between August 30, 2022 and September 7, 2022, site assessment and delineation activities were conducted by Ensolum to characterize the subject release by verifying the presence or absence of impacted soil. Delineation soil samples were collected in boreholes advanced via hand auger (samples designated BH) within the accessible portions of the release footprint. Delineation activites were directed by field sceening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. A total of two soil samples were collected from each delineation soil sample location (BH01 and BH02): the sample with the highest observed field screening (0.5-foot bgs) and the greatest depth (1-foot bgs). The location of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Field screening results and observations for each delineation soil sample were recorded on lithologic soil sampling logs (**Appendix D**). Photographic documentation during delineation activities is included in **Appendix C**.

The soil samples were placed directly into a pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 6 degrees Celsius (°C), under strict chain-of-custody procedures, to Eurofins LLC (Eurofins) in Carlsbad, New Mexico, for analysis of constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

3.0 SOIL SAMPLING RESULTS

Laboratory analytical results for delineation soil samples BH01 and BH02 indicated COCs were below the applicable Closure Criteria for the Site and delineated to the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized on **Table 1** in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.



Appendix G provides correspondence email notification receipts associated with the subject release.

4.0 CLOSURE REQUEST

The primary objectives of Ensolum's scope of services were to conduct site assessment and delineation soil sampling activities in order to confirm the presence or absence of impacted soil in accordance with the applicable NMOCD regulatory guidelines. Based on the results documented in this report, the following findings and conclusions regarding the release are presented:

- Initial efforts performed by WPX included rebuilding and relocating the tank battery
 northeast of its original location. Ensolum was retained to confirm residual soils accessible
 from the release event were removed during response and relocation activities. Laboratory
 analytical results for delineation soil samples collected from the former tank battery
 earthen containment indicated COCs were within the applicable Closure Criteria for the
 Site based on a confirmed depth to groundwater greater than 100 feet bgs and that
 impacted soil associated with the release event was successfully addressed; and
- The delineation samples also meet the reclamation requirement for chloride and TPH concentrations in the top four feet of the subsurface.

Based on the conclusions presented, WPX believes the remediation activities described above have met the requirements set forth in NMAC 19.15.29.13 to be protective of human health, the environment, and groundwater. As such, WPX respectfully requests No Further Action of Incident Number nAB1625254125.





APPENDIX A

Figures

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APPENDIX B

Well Record

Released to Imaging: 5/16/2023 11:27:59 AM

Received by OCD: 1/17/2023 4.28:38 PM					Page 17 of 5
Client: Devon Energy Project Name: Saragossa 16 State 2	GF	ROUNDWATER SA	MPLING FORM		
Project Location: Water Well (Permit# C-02395) Project Manager: Joseph Hernandez					
SAMPLING INFORMATION	Soil Boring / Monitor Well Number: <u>NA</u> Project #: 03A1987017				
Date Completed: <u>8/15/2022</u> Total Depth of Monitor Well: <mark>Unknown</mark>					
Screen Interval: Unknown Sample Tubing Intake Denth: NA		ndicator to maximum le groundwater depth in ex	ength of 200' without de xisting well. Land owne	tecting wate r provided ac	r. Decontaminated water level indicator meter ccess to the water well.
Geologist: Gilbert Moreno	-				
Tubing Placement GW Depth (static) After Purge	Time Purge Rate Temp. (minutes) (L/min) (°C)	pH DO (unitless) (mg/L)	ORP Cond. (mV) (mS/cm)	GW Depth (feet)	Comments: NA = Not Available
	NR NR NR	NR NR	NR NR	>200'	NR = Not Recorded
		\rightarrow			
				\vdash	

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P	WR F	File Num	iber: C 0239	5		Subbasin: C	Cross Ref	ference:	-	
get image lis		ary Purp	oose: STK	72-12	2-1 LIV	ESTOCK WATERING				
<u>get image ns</u>	Prima	ary Statı	us: PMT	PERM	ЛIТ					
	Total	Acres:				Subfile: -			Header: -	
	Total	Diversio	on: 3			Cause/Case: -				
		Own	er: JUSTIN	ND WI	LSON					
Documen	x on File	e		St	atus		From/			
	Trn #	Doc	File/Act	1	2	Transaction Desc.	То	Acres	Diversion	Consumptive
images	<u>711992</u>	COWNE	2021-11-03	CHG	PRC	C 02395	Т		0	
images	<u>623603</u>	72121	<u>2018-04-17</u>	PMT	APR	C 02395	Т		3	
images	<u>623604</u>	COWN	<u>F 2018-03-26</u>	CHG	PRC	C 02395	Т		0	
images	<u>465653</u>	72121	<u>1997-09-16</u>	EXP	EXP	C 02395	Т		3	
images	465651	72121	<u>1997-05-15</u>	EXP	EXP	C 02395	Т		3	
Current I POD <u>C 023</u>	Number			urce 6	-	× ×	07TM in meters) X Y 50 3574477		Location Des NG LEASE 584	ic

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

1/5/23 2:58 PM

WATER RIGHT SUMMARY



APPENDIX C

Photographic Log

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APPENDIX D

Lithologic Soil Sampling Logs

Released to Imaging: 5/16/2023 11:27:59 AM

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				Sample Name: BH01	Date: 09/07/2022
	NC	O L U I		Site Name: Saragossa 16 State 2	
	IN S V		Incident Number: nAB1625254125		
			Job Number: 03A1987017		
LITHO	DLOGIC / SOIL	SAMPLING LOG		Logged By: SK	Method: Hand Auger
Coordinates: 32.3096	1139N, 104.29243	87°W		Hole Diameter: 2.5 inches	Total Depth: 1'
Comments: Field scre performed with 1:4 di				PID for chloride and vapor, respec factors included.	tively. Chloride test
Moisture Content Chloride (ppm) Vapor	Staining Staining Sample ID	Sample Depth (ft bgs)		Lithologic De	escriptions
D <168 0.7	N BH01	0.5 _ 0.5	ССНЕ	(0-1') CALICHE, with gravel	, very silty, no odor, no
D 414 0.6	N BH01			staining.	
			 Depth: 1 fo	l oot bgs.	

•

								Sample Name: BH02	Date: 09/07/2022
			N	5 (Site Name: Saragossa 16 State	
							Incident Number: nAB1625254125		
						Job Number: 03A1987017			
		LITHOL	OGI	C / SOIL S	SAMPLING	6 LOG		Logged By: SK	Method: Hand Auger
Coord	inates: 32	2.3096113	39N, 3	104.292438	87°W			Hole Diameter: 2.5 inches	Total Depth: 1'
								PID for chloride and vapor, rest factors included.	pectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions
D	<168	0.9	N	BH02	0.5 _ -	0.5 0.5	CCHE	(0-1') CALICHE, with grav staining.	el, very silty, no odor, no
D	<168	0.5	Ν	BH02	1	1			



APPENDIX E

Tables

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC - Saragossa 16 State 2 Eddy County, New Mexico Ensolum Project No. 03A1987017										
Sample I.D. Sample Date Sample Depth (feet bgs) Benzene (mg/kg) Total BTEX (mg/kg) TPH GRO (mg/kg) TPH DRO (mg/kg) GRO+DRO (mg/kg) Total TPH (mg/kg)										
NMOCD Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delineat	ion Soil Sample Anal	ytical Results				
BH01	09/07/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	32.0
BH01	09/07/2022	1	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	433
BH02	09/07/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	22.3
BH02	09/07/2022	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	21.6
		÷			÷	•	÷	•		

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

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APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

Received by OCD: 1/17/2023 4:28:38 PM

LINKS

Review your project results through

EOL

Have a Question?

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

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2894-1

Laboratory Sample Delivery Group: 03A1987017 Client Project/Site: Saragossa 16 State 2

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Devon Team

RAMER

Authorized for release by: 9/21/2022 1:49:35 PM Jessica Kramer, Project Manager (432)704-5440 Jessica.Kramer@et.eurofinsus.com

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

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

Laboratory Job ID: 890-2894-1 SDG: 03A1987017

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Definitions/Glossary

Client: Ensolum Project/Site: Saragossa 16 State 2

3

SDG: 03A1987017

GC VOA		
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	
F1	MS and/or MSD recovery exceeds control limits.	Ę
F2	MS/MSD RPD exceeds control limits	
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VO	OA	
Qualifier	Qualifier Description	2
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	

Glossary

Qualifiers

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

Job ID: 890-2894-1

Job ID: 890-2894-1 SDG: 03A1987017

Job ID: 890-2894-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2894-1

Receipt

The samples were received on 9/8/2022 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: BH01 (890-2894-1), BH01 (890-2894-2), BH02 (890-2894-3) and BH02 (890-2894-4). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with/cancel analysis.

890-2894

Temp Blank 6.2 c/ 6.0 c client says they were in hte fridge overnight and was taken out this am- would like to proceed with processing.

GC VOA

Method 8021B: The LCS was biased high for o-xylene. Since the method requires either an acceptable LCS or LCSD, the data was qualified and reported. (LCSD 880-34678/2-A)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34678 and analytical batch 880-34891 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH02 (890-2894-3), (LCSD 880-34678/2-A), (890-2892-A-1-G MS) and (890-2892-A-1-H MSD). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-34144/2-A) and (LCSD 880-34144/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Job ID: 890-2894-1 SDG: 03A1987017

Client Sample ID: BH01

Project/Site: Saragossa 16 State 2

Date Collected: 09/07/22 13:00 Date Received: 09/08/22 08:15

Sample Depth: 0.5

Client: Ensolum

DG: 03A 1967017

Lab Sample ID: 890-2894-1 Matrix: Solid

Join

Method: 8021B - Volatile Organic Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199		0.00199		mg/Kg		09/16/22 13:28	09/20/22 22:22	
Toluene	< 0.00199		0.00199		mg/Kg		09/16/22 13:28	09/20/22 22:22	
Ethylbenzene	< 0.00199		0.00199		mg/Kg		09/16/22 13:28	09/20/22 22:22	
m-Xylene & p-Xylene	< 0.00398		0.00398		mg/Kg		09/16/22 13:28	09/20/22 22:22	
o-Xylene	<0.00199		0.00199		mg/Kg		09/16/22 13:28	09/20/22 22:22	
Xylenes, Total	<0.00398		0.00398		mg/Kg		09/16/22 13:28	09/20/22 22:22	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	115		70 - 130				09/16/22 13:28	09/20/22 22:22	
1,4-Difluorobenzene (Surr)	85		70 - 130				09/16/22 13:28	09/20/22 22:22	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/21/22 09:38	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
otal TPH	<49.9	U	49.9		mg/Kg			09/12/22 11:26	
Method: 8015B NM - Diesel Rang						_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Gasoline Range Organics GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/10/22 08:45	09/10/22 11:10	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/10/22 08:45	09/10/22 11:10	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/10/22 08:45	09/10/22 11:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil
-Chlorooctane	78		70 - 130				09/10/22 08:45	09/10/22 11:10	
p-Terphenyl	86		70 - 130				09/10/22 08:45	09/10/22 11:10	
Method: 300.0 - Anions, Ion Chro									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Chloride	32.0		4.96		mg/Kg			09/13/22 14:04	
ient Sample ID: BH01							Lab San	nple ID: 890-	
te Collected: 09/07/22 13:10								Matri	x: So
ate Received: 09/08/22 08:15									
ample Depth: 1									
Method: 8021B - Volatile Organic		(<mark>GC)</mark> Qualifier	RL	мп	Unit	D	Prepared	Analyzed	Dil F
Benzene	- <u><0.00198</u>		0.00198		mg/Kg		09/16/22 13:28	09/20/22 22:42	
Foluene	<0.00198		0.00198				09/16/22 13:28	09/20/22 22:42	
					mg/Kg				
Ethylbenzene	<0.00198		0.00198		mg/Kg		09/16/22 13:28	09/20/22 22:42	
n-Xylene & p-Xylene	< 0.00396	U	0.00396		mg/Kg		09/16/22 13:28	09/20/22 22:42	

m-Xylene & p-Xylene <0.00396 U 0.00396 mg/Kg 09/16/22 13:28 09/20/22 22:42 09/16/22 13:28 <0.00198 U*+ 09/20/22 22:42 o-Xylene 0.00198 mg/Kg 1 Xylenes, Total <0.00396 U 0.00396 mg/Kg 09/16/22 13:28 09/20/22 22:42 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 118 70 - 130 09/16/22 13:28 09/20/22 22:42 1

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

Method: Total BTEX - Total BTEX Calculation

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

%Recovery Qualifier

Result Qualifier

Ū

Result Qualifier

<49.8 U

83

<0.00396

%Recovery

<0.00399

95

68 S1-

Result Qualifier

Ū

Result Qualifier

<50.0 U

Qualifier

Client Sample Results

Limits

70 - 130

RL

RL

49.8

0.00396

MDL Unit

MDL Unit

mg/Kg

mg/Kg

Job ID: 890-2894-1 SDG: 03A1987017

Analyzed

09/20/22 22:42

Analyzed

09/21/22 09:38

Analyzed

09/12/22 11:26

Client Sample ID: BH01

1,4-Difluorobenzene (Surr)

Date Collected: 09/07/22 13:10 Date Received: 09/08/22 08:15

Project/Site: Saragossa 16 State 2

Sample Depth: 1

Surrogate

Analyte

Analyte

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Total TPH

Total BTEX

Client: Ensolum

Lab Sample I

D

D

Prepared

09/16/22 13:28

Prepared

Prepared

Prepared

09/16/22 13:28

09/16/22 13:28

Prepared

Prepared

D

D

D: 890-2894-2 Matrix: Solid Dil Fac Dil Fac Dil Fac 1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		09/10/22 08:45	09/10/22 12:15	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		09/10/22 08:45	09/10/22 12:15	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/10/22 08:45	09/10/22 12:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				09/10/22 08:45	09/10/22 12:15	1
o-Terphenyl	87		70 _ 130				09/10/22 08:45	09/10/22 12:15	1
Method: 300.0 - Anions, Ion Chro Analyte Chloride		Qualifier	RL 5.04	MDL	Unit mg/Kg	<u> </u>	Prepared	Analyzed 09/13/22 14:09	Dil Fac
Client Sample ID: BH02							Lab Sar	nple ID: 890-	2894-3
Date Collected: 09/07/22 13:20 Date Received: 09/08/22 08:15 Sample Depth: 0.5								Matri	ix: Solid
Method: 8021B - Volatile Organic									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 13:28	09/20/22 23:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 13:28	09/20/22 23:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 13:28	09/20/22 23:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/16/22 13:28	09/20/22 23:03	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/16/22 13:28	09/20/22 23:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/16/22 13:28	09/20/22 23:03	1

Method: Total BTEX - Total BTEX Calculation

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

Limits

70 - 130

70 - 130

RL

RL

50.0

0.00399

MDL

MDL Unit

Unit

mg/Kg

mg/Kg

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1

1

1

1

Dil Fac

Dil Fac

Dil Fac

Analvzed

09/20/22 23:03

09/20/22 23:03

Analyzed

09/21/22 09:38

Analyzed

09/12/22 11:26

Client Sample Results

Job ID: 890-2894-1 SDG: 03A1987017

Lab Sample ID: 890-2894-3

Client Sample ID: BH02

Project/Site: Saragossa 16 State 2

Date Collected: 09/07/22 13:20 Date Received: 09/08/22 08:15

Sample Depth: 0.5

Client: Ensolum

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/10/22 08:45	09/10/22 12:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/10/22 08:45	09/10/22 12:37	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/10/22 08:45	09/10/22 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 _ 130				09/10/22 08:45	09/10/22 12:37	1
o-Terphenyl	88		70 - 130				09/10/22 08:45	09/10/22 12:37	1

Method: 500.0 - Anions, ion Chron	latography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.3	4.97	mg/Kg			09/13/22 14:14	1

Client Sample ID: BH02

Date Collected: 09/07/22 13:30

Date Received: 09/08/22 08:15 Sample Depth: 1

Total BTEX

Method: 8021B - Volatile Orga	nic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00201	U	0.00201		mg/Kg		09/16/22 13:28	09/20/22 23:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/16/22 13:28	09/20/22 23:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/16/22 13:28	09/20/22 23:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/16/22 13:28	09/20/22 23:23	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/16/22 13:28	09/20/22 23:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/16/22 13:28	09/20/22 23:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				09/16/22 13:28	09/20/22 23:23	1
1,4-Difluorobenzene (Surr)	86		70 - 130				09/16/22 13:28	09/20/22 23:23	1
_			101100				00,70,22,70.20	00,20,22 20.20	
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

0.00402

mg/Kg

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D

<0.00402 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/12/22 11:26	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/10/22 08:45	09/10/22 12:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/10/22 08:45	09/10/22 12:59	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/10/22 08:45	09/10/22 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				09/10/22 08:45	09/10/22 12:59	1
o-Terphenyl	82		70 - 130				09/10/22 08:45	09/10/22 12:59	1

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09/21/22 09:38

1

		Client	Sample R	esults	3					
Client: Ensolum Project/Site: Saragossa 16 State 2								Job ID: 890 SDG: 03A		2
Client Sample ID: BH02 Date Collected: 09/07/22 13:30							Lab Sa	mple ID: 890- Matri	2894-4 ix: Solid	
Date Received: 09/08/22 08:15 Sample Depth: 1										4
Method: 300.0 - Anions, Ion Chroma		Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	21.6		5.02		mg/Kg			09/13/22 14:18	1	
										8
										9
										13

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Client: Ensolum Project/Site: Saragossa 16 State 2

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

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2892-A-1-G MS	Matrix Spike	103	67 S1-	
890-2892-A-1-H MSD	Matrix Spike Duplicate	162 S1+	94	
890-2894-1	BH01	115	85	
890-2894-2	BH01	118	83	
890-2894-3	BH02	95	68 S1-	
890-2894-4	BH02	116	86	
LCS 880-34678/1-A	Lab Control Sample	113	87	
LCSD 880-34678/2-A	Lab Control Sample Dup	151 S1+	99	
MB 880-34678/5-A	Method Blank	103	86	
MB 880-34854/5-A	Method Blank	98	91	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

watrix:	201	a

		Percent Surrogate Recovery (Acceptance Limits)		
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2894-1	BH01	78	86	
890-2894-1 MS	BH01	89	93	
890-2894-1 MSD	BH01	89	91	
890-2894-2	BH01	79	87	
890-2894-3	BH02	80	88	
890-2894-4	BH02	75	82	
LCS 880-34144/2-A	Lab Control Sample	116	133 S1+	
LCSD 880-34144/3-A	Lab Control Sample Dup	114	132 S1+	
MB 880-34144/1-A	Method Blank	96	108	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-2894-1 SDG: 03A1987017

Prep Type: Total/NA

5 6
Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34678/	5-A						Client Sa	mple ID: Metho	d Blank
Matrix: Solid								Prep Type: 1	otal/NA
Analysis Batch: 34891								Prep Batch	n: 3467 8
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 13:28	09/20/22 21:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 13:28	09/20/22 21:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 13:28	09/20/22 21:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/16/22 13:28	09/20/22 21:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 13:28	09/20/22 21:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/16/22 13:28	09/20/22 21:19	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				09/16/22 13:28	09/20/22 21:19	1
1,4-Difluorobenzene (Surr)	86		70 - 130				09/16/22 13:28	09/20/22 21:19	1
Lab Sample ID: LCS 880-34678	3/1-A					C	lient Sample I	D: Lab Control	Sample

Lab Sample ID: LCS 880-34678/1-A Matrix: Solid

Analysis Batch: 34891

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07760		mg/Kg		78	70 - 130	
Toluene	0.100	0.08472		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.09373		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1798		mg/Kg		90	70 - 130	
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-34678/2-A

Matrix: Solid

Analysis Batch: 34891								Batch:	34678
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09317		mg/Kg		93	70 - 130	18	35
Toluene	0.100	0.09586		mg/Kg		96	70 - 130	12	35
Ethylbenzene	0.100	0.1123		mg/Kg		112	70 - 130	18	35
m-Xylene & p-Xylene	0.200	0.2477		mg/Kg		124	70 - 130	32	35
o-Xylene	0.100	0.1428	*+	mg/Kg		143	70 - 130	33	35

4-Bromofluorobenzene (Surr)	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)		S1+	70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-2892-A-1-G MS

Matrix: Solid Analysis Potoby 24904

Analysis Batch: 34891									Prep I	Batch: 34678
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1 F2	0.0998	0.01067	F1	mg/Kg		11	70 - 130	
Toluene	<0.00201	U F1 F2	0.0998	0.01385	F1	mg/Kg		13	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Job ID: 890-2894-1 SDG: 03A1987017

Client: Ensolum Project/Site: Saragossa 16 State 2

Lab Sample ID: 890-2892-A-1-G MS

Matrix: Solid

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

Job ID: 890-2894-1 SDG: 03A1987017	
Client Sample ID: Matrix Spike	
Prep Type: Total/NA	
Prep Batch: 34678	
%Rec	

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Analysis Batch: 34891									Prep Ba	atch: 34678
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U F1 F2	0.0998	0.01551	F1	mg/Kg		16	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.02900	F1	mg/Kg		15	70 - 130	
o-Xylene	<0.00201	U *+ F1	0.0998	0.01743	F1	mg/Kg		17	70 - 130	
		F2								
	MS	MS								

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130

Lab Sample ID: 890-2892-A-1-H MSD Matrix: Solid

Analysis Batch: 34891									Prep	Batch:	34678
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1 F2	0.0990	0.04386	F1 F2	mg/Kg		44	70 - 130	122	35
Toluene	<0.00201	U F1 F2	0.0990	0.04253	F1 F2	mg/Kg		42	70 - 130	102	35
Ethylbenzene	<0.00201	U F1 F2	0.0990	0.05157	F1 F2	mg/Kg		52	70 - 130	108	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.198	0.1069	F1 F2	mg/Kg		54	70 - 130	115	35
o-Xylene	<0.00201	U *+ F1	0.0990	0.06079	F1 F2	mg/Kg		61	70 - 130	111	35
		F2									

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-34854/5-A Matrix: Solid Analysis Batch: 34891

MB MB MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 09/20/22 10:44 mg/Kg 09/19/22 14:55 1 Toluene <0.00200 U 0.00200 mg/Kg 09/19/22 14:55 09/20/22 10:44 1 <0.00200 U 0.00200 09/19/22 14:55 09/20/22 10:44 Ethylbenzene mg/Kg 1 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 09/19/22 14:55 09/20/22 10:44 1 o-Xylene <0.00200 U 0.00200 mg/Kg 09/19/22 14:55 09/20/22 10:44 1 Xylenes, Total <0.00400 U 0.00400 mg/Kg 09/19/22 14:55 09/20/22 10:44 1 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 98 70 - 130 09/19/22 14:55 09/20/22 10:44 1 91 1,4-Difluorobenzene (Surr) 70 - 130 09/19/22 14:55 09/20/22 10:44 1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34854

Client: Ensolum Project/Site: Saragossa 16 State 2

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

- Lab Sample ID: MB 880-34144/	1-A										Client Sa	ample ID:	Metho	d Blar	۱k
Matrix: Solid													Гуре: Т		
Analysis Batch: 34141													Batch		
Analysis Batch. 04141		мв	мв									TICP	Baten		Ξ.
Analyte	R	esult		F	RL	мрі	Unit		D	P	repared	Analyz	zed	Dil Fa	ac
Gasoline Range Organics		<50.0		50			mg/K	a			0/22 08:45	09/10/22			1
(GRO)-C6-C10		00.0	0		.0		ing/it	9		00/1	0,22 00.10	00/10/22	10.01		•
Diesel Range Organics (Over	<	\$0.0	U	50	.0		mg/K	g		09/1	0/22 08:45	09/10/22	10:04		1
C10-C28)															
Oll Range Organics (Over C28-C36)	<	\$50.0	U	50	.0		mg/K	g		09/1	0/22 08:45	09/10/22	10:04		1
		ΜВ	MB												
Surrogate	%Reco	verv	Qualifier	Limits						P	repared	Analyz	zed	Dil Fa	ac
1-Chlorooctane		96		70 - 130					_		0/22 08:45				1
o-Terphenyl		108		70 - 130	1					09/1	0/22 08:45	09/10/22	10:04		1
Lab Sample ID: LCS 880-34144	/2-A								Cli	ent	Sample	ID: Lab C	ontrol	Samp	le
Matrix: Solid												Prep 7	Гуре: Т	otal/N	Α
Analysis Batch: 34141												Prep	Batch	: 3414	44
				Spike	LCS	LCS						%Rec			
Analyte				Added	Result	Qua	lifier	Unit		D	%Rec	Limits			
Gasoline Range Organics				1000	819.2			mg/Kg			82	70 - 130			
(GRO)-C6-C10															
Diesel Range Organics (Over				1000	765.4			mg/Kg			77	70 - 130			
C10-C28)															
	LCS	LCS													
Surrogate	%Recovery	Qua	lifier	Limits											
1-Chlorooctane	116			70 - 130											
o-Terphenyl	133	S1+		70 - 130											
Lab Sample ID: LCSD 880-3414	14/3-A							Cli	ent s	Sam	iple ID: L	ab Contro			
Matrix: Solid													Type: T		
Analysis Batch: 34141				0	1.000		-						Batch		
Analyta				Spike Added		LCS		Unit			%Rec	%Rec Limits	RPD	RF	
Analyte				1000	Result 844.5	·	imer			D	84	70 - 130	3		20
Gasoline Range Organics (GRO)-C6-C10				1000	044.0			mg/Kg			04	70 - 130	3	, ,	20
Diesel Range Organics (Over				1000	758.8			mg/Kg			76	70 - 130	1	2	20
C10-C28)								0 0							
	1.050	100	~												
Surrogata	LCSD %Recovery			Limito											
Surrogate 1-Chlorooctane	[%] Recovery 114	Qua	imer	Limits 70 - 130											
o-Terphenyl		S1+		70 - 130 70 - 130											
	152	31+		70 - 730											
Lab Sample ID: 890-2894-1 MS												Client Sa	mple IC): BH0)1
Matrix: Solid													Гуре: Т		
Analysis Batch: 34141													Batch		
•	Sample	Sam	ple	Spike	MS	MS						%Rec			
Analyte	Result		-	Added	Result	Qua	lifier	Unit		D	%Rec	Limits			
Gasoline Range Organics	<49.9			997	899.6			mg/Kg		-	88	70 - 130			—
(0.00) 00 010															
(GRO)-C6-C10															
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U		997	730.7			mg/Kg			70	70 - 130			

Job ID: 890-2894-1 SDG: 03A1987017

Client: Ensolum Project/Site: Saragossa 16 State 2

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

MB MB

Lab Sample ID: 890-2894-1 MS
Matrix: Solid
Analysis Batch: 34141

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	93		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2894-1 MSD Matrix: Solid

Lab Sample ID: MB 880-34100/1-A

Matrix: Solid

Analysis Batch: 34369

Matrix: Solid Analysis Batch: 34141										Type: To Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	878.0		mg/Kg		86	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	733.6		mg/Kg		70	70 - 130	0	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	91		70 _ 130								

Analyte	R	esult	Qualifier		RL		MDL	Unit		D	Pı	repared	Analyz	zed	Dil Fac
Chloride	~	5.00	U		5.00			mg/Kg					09/13/22	12:02	
- Lab Sample ID: LCS 880-34100)/2-A									Clie	ent	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid														Type: S	
Analysis Batch: 34369															
				Spike		LCS	LCS						%Rec		
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Chloride				250		240.2			mg/Kg			96	90 - 110		
- Lab Sample ID: LCSD 880-3410	00/3-A								Cli	ent S	am	ple ID: l	_ab Contro	ol Samp	le Dup
Matrix: Solid														Type: S	
Analysis Batch: 34369															
Analysis Batch: 34369				Spike		LCSD	LCS	D					%Rec		RPD
Analysis Batch: 34369 Analyte				Spike Added		LCSD Result			Unit		D	%Rec	%Rec Limits	RPD	RPD Limit
-				•					Unit mg/Kg		D	%Rec 96		RPD	Limit
Analyte	3 MS			Added		Result					D	96	Limits	0	Limit 20
Analyte Chloride	3 MS			Added		Result					D	96	Limits 90 - 110 Sample ID	0	Limit 20 x Spike
Analyte Chloride Lab Sample ID: 890-2892-A-8-E	3 MS			Added		Result					D	96	Limits 90 - 110 Sample ID	0 : Matrix	Limit 20 x Spike
Analyte Chloride Lab Sample ID: 890-2892-A-8-E Matrix: Solid	3 MS Sample	Samp		Added		Result	Qual				D	96	Limits 90 - 110 Sample ID	0 : Matrix	Limit 20 x Spike
Analyte Chloride Lab Sample ID: 890-2892-A-8-E Matrix: Solid				Added 250		Result 240.3	Qual	lifier			D	96	Limits 90 - 110 Sample ID Prep	0 : Matrix	Limit 20 x Spike

Job ID: 890-2894-1 SDG: 03A1987017

Client Sample ID: BH01 Prep Type: Total/NA Prep Batch: 34144

Client Sample ID: BH01

Client Sample ID: Method Blank

Prep Type: Soluble

Project/Site: Saragossa 16 State 2

Client: Ensolum

Job ID: 890-2894-1 SDG: 03A1987017

Method: 300.0 - Anions, Ion Chromatography (Continued)

Matrix: Solid								Matrix Spike Duplicate Prep Type: Soluble				
Analysis Batch: 34369 Analyte Chloride		Sample Qualifier	Spike Added 249		MSD Qualifier	<mark>Unit</mark>	<u>D</u>	%Rec 100	%Rec Limits 90 - 110	RPD	RPD Limit 20	5
												7
												8
												Q
												-

QC Association Summary

Client: Ensolum Project/Site: Saragossa 16 State 2

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Job ID: 890-2894-1 SDG: 03A1987017

GC VOA

Prep Batch: 34678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2894-1	BH01	Total/NA	Solid	5035	
890-2894-2	BH01	Total/NA	Solid	5035	
890-2894-3	BH02	Total/NA	Solid	5035	
890-2894-4	BH02	Total/NA	Solid	5035	
MB 880-34678/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34678/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34678/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2892-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-2892-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34854/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 34891

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2894-1	BH01	Total/NA	Solid	8021B	34678
890-2894-2	BH01	Total/NA	Solid	8021B	34678
890-2894-3	BH02	Total/NA	Solid	8021B	34678
890-2894-4	BH02	Total/NA	Solid	8021B	34678
MB 880-34678/5-A	Method Blank	Total/NA	Solid	8021B	34678
MB 880-34854/5-A	Method Blank	Total/NA	Solid	8021B	34854
LCS 880-34678/1-A	Lab Control Sample	Total/NA	Solid	8021B	34678
LCSD 880-34678/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34678
890-2892-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	34678
890-2892-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	34678

Analysis Batch: 35021

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2894-1	BH01	Total/NA	Solid	Total BTEX	
890-2894-2	BH01	Total/NA	Solid	Total BTEX	
890-2894-3	BH02	Total/NA	Solid	Total BTEX	
890-2894-4	BH02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 34141

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2894-1	BH01	Total/NA	Solid	8015B NM	34144
890-2894-2	BH01	Total/NA	Solid	8015B NM	34144
890-2894-3	BH02	Total/NA	Solid	8015B NM	34144
890-2894-4	BH02	Total/NA	Solid	8015B NM	34144
MB 880-34144/1-A	Method Blank	Total/NA	Solid	8015B NM	34144
LCS 880-34144/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34144
LCSD 880-34144/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34144
890-2894-1 MS	BH01	Total/NA	Solid	8015B NM	34144
890-2894-1 MSD	BH01	Total/NA	Solid	8015B NM	34144
Prep Batch: 34144					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2894-1	BH01	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum Project/Site: Saragossa 16 State 2

GC Semi VOA (Continued)

Prep Batch: 34144 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2894-2	BH01	Total/NA	Solid	8015NM Prep	
890-2894-3	BH02	Total/NA	Solid	8015NM Prep	
890-2894-4	BH02	Total/NA	Solid	8015NM Prep	
MB 880-34144/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34144/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34144/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2894-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-2894-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2894-1	BH01	Total/NA	Solid	8015 NM	
890-2894-2	BH01	Total/NA	Solid	8015 NM	
890-2894-3	BH02	Total/NA	Solid	8015 NM	
890-2894-4	BH02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2894-1	BH01	Soluble	Solid	DI Leach	
390-2894-2	BH01	Soluble	Solid	DI Leach	
890-2894-3	BH02	Soluble	Solid	DI Leach	
890-2894-4	BH02	Soluble	Solid	DI Leach	
MB 880-34100/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34100/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34100/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-2892-A-8-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2892-A-8-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 34369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2894-1	BH01	Soluble	Solid	300.0	34100
890-2894-2	BH01	Soluble	Solid	300.0	34100
890-2894-3	BH02	Soluble	Solid	300.0	34100
890-2894-4	BH02	Soluble	Solid	300.0	34100
MB 880-34100/1-A	Method Blank	Soluble	Solid	300.0	34100
LCS 880-34100/2-A	Lab Control Sample	Soluble	Solid	300.0	34100
LCSD 880-34100/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34100
890-2892-A-8-B MS	Matrix Spike	Soluble	Solid	300.0	34100
890-2892-A-8-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34100

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Job ID: 890-2894-1

SDG: 03A1987017

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9

Job ID: 890-2894-1 SDG: 03A1987017

Lab Sample ID: 890-2894-1 Matrix: Solid

Client Sample ID: BH01 Date Collected: 09/07/22 13:00 Date Received: 09/08/22 08:15

Project/Site: Saragossa 16 State 2

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34678	09/16/22 13:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34891	09/20/22 22:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35021	09/21/22 09:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34280	09/12/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34144	09/10/22 08:45	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34141	09/10/22 11:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34100	09/09/22 12:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34369	09/13/22 14:04	СН	EET MID

Client Sample ID: BH01

Date Collected: 09/07/22 13:10

Date Received: 09/08/22 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	34678	09/16/22 13:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34891	09/20/22 22:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35021	09/21/22 09:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34280	09/12/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34144	09/10/22 08:45	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34141	09/10/22 12:15	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34100	09/09/22 12:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34369	09/13/22 14:09	СН	EET MID

Client Sample ID: BH02

Date Collected: 09/07/22 13:20

Date Received: 09/08/22 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34678	09/16/22 13:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34891	09/20/22 23:03	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35021	09/21/22 09:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34280	09/12/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34144	09/10/22 08:45	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34141	09/10/22 12:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34100	09/09/22 12:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34369	09/13/22 14:14	СН	EET MID

Client Sample ID: BH02 Date Collected: 09/07/22 13:30 Date Received: 09/08/22 08:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34678	09/16/22 13:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34891	09/20/22 23:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35021	09/21/22 09:38	AJ	EET MID

Eurofins Carlsbad

Lab Sample ID: 890-2894-2 Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2894-3

Lab Sample ID: 890-2894-4 Matrix: Solid

Job ID: 890-2894-1 SDG: 03A1987017

Client Sample ID: BH02 Date Collected: 09/07/22 13:30

Project/Site: Saragossa 16 State 2

Date Received: 09/08/22 08:15

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			34280	09/12/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34144	09/10/22 08:45	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34141	09/10/22 12:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34100	09/09/22 12:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34369	09/13/22 14:18	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

Lab Sample ID: 890-2894-4 Matrix: Solid

Accreditation/Certification Summary

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	-				
Client: Ensolum Project/Site: Saragossa	a 16 State 2			Job ID: 890-2894- SDG: 03A1987017	
				3DG. 03A1967017	
Laboratory: Eurof					
	analytes for this laboratory we	ere covered under each acc	reditation/certification below.		-
Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	N	ELAP	T104704400-22-24	06-30-23	E
The following analytes	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This list m	ay include analytes for which	5
the agency does not of					
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
					8
					9
					3
					10
					13

Method Summary

Client: Ensolum Project/Site: Saragossa 16 State 2 Job ID: 890-2894-1 SDG: 03A1987017

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

Protocol References:

Laboratory References:

Sample Summary

Client: Ensolum Project/Site: Saragossa 16 State 2 Job ID: 890-2894-1 SDG: 03A1987017

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-2894-1	BH01	Solid	09/07/22 13:00	09/08/22 08:15	0.5	_
90-2894-2	BH01	Solid	09/07/22 13:10	09/08/22 08:15	1	
90-2894-3	BH02	Solid	09/07/22 13:20	09/08/22 08:15	0.5	
90-2894-4	BH02	Solid	09/07/22 13:30	09/08/22 08:15	1	
						1

				Hobbs,	NM (575) 392-7550	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	9	www.xenco.com	com Page 1
Project Manager: Ju	Joseph Hernandez		8	Bill to: (If different)	Jim Raley			Work Ore	omm
	Ensolum, LLC.		0	Company Name:	Devon Ener	Devon Energy Corporation	Program	Program: UST/PST PRP Brownfields RRC	Brownfields 🗌 RRC 🗌 Superfund 🗌
	2351 W Northwest Hwy Suite 1203A	Hwy Suite 1203		Address:	5315 Buena Vista Dr.	Vista Dr.	State of	State of Project:	
e ZIP:	Dallas, TX 75220			City, State ZIP:	Carlsbad, NM 88220	M 88220	Reportin	g: Level II 🗌 Level III 🗌	Reporting: Level II CLevel III PST/UST TRRP L Level IV
	281-702-2329		Email:	jim.raley@dvn.com			Delivera	Deliverables: EDD A	ADaPT Other:
Project Name:	Saragossa 16 state	6 state 2	Turn A	Turn Around		ANALY	ANALYSIS REQUEST	-	Preservative Codes
Project Number:	03A1987017	7017	Routine	Rush	Code				None: NO DI Water: H ₂ O
Project Location:			Due Date:	5 days TAT					Cool: Cool MeOH: Me
Sampler's Name:	Sanju khatri	natri	TAT starts the	TAT starts the day received by		0	-		HCL: HC HNO3: HN
PO#		D	the lab, if recei	the lab, if received by 4:30pm	3	300.0			H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	T Temp Blank:	:: Kes No	Wet Ice:	No Fail		OD :			H ₃ PO ₄ : HP
Samples Received Intact:		Therm	1	E CO W R	D 8	ETH			NaHSO4: NABIS
Cooler Custody Seals:	Yes No A	Correction Factor:	actor:	.0.0	тнс		THE REPORT OF THE OWNER.		Na2S2O3: NaSO3
Sample Custody Seals:	Yes No	N/A Temperature Reading:	e Reading:	6.0	_	- Ef	Chain of Custody		Zn Acetate+NaOH: Zn
		Data	Date Time	Grab/	* - EP/	ORID		_	
Sample Identification		Matrix Sampled	a	Comp (BT	СНІ			
BH01	S	9/7/2022	13:00 0	0.5' Grab/	1 × ×	×			2RP-3869
BH01	s	9/7/2022	13:10 1	1' Grab/	1 × ×	×			
BH02	s	9/7/2022	13:20 0	0.5' Grab/	1 × ×	×			Cost Center: 1061084301
BH02	s	9/7/2022	13:30 1	1' Grab/	1 × ×	×			
			1	,				_	
			N						
		T T	1/						
		2							
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	10 200.8 / 6020: d Metal(s) to be ana		BRCRA 13PPM TCLP / SPLP	Texas 11 6010: 8RC	(0)	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pt Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	Nis	1oNiK Se TIU	Ag SiO ₂ Na Sr TI Sn U V Zn Hg: 1631/245.1/7470 /7471
Notice: Signature of this dou of service. Eurofins Xenco Aminim	cument and relinquishmu will be liable only for the um charge of \$85.00 will	ent of samples const cost of samples and be applied to each r	litutes a valid purc I shall not assume project and a char	chase order from cli any responsibility f nge of \$5 for each sa	ent company to Eurol for any losses or expl Imple submitted to Eu	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control or Eurofins Xenco. A minimum charge of \$5500 will be applied to each protect and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	contractors. It assigns si ch losses are due to circ These terms will be enfo	It assigns standard terms and conditions e due to circumstances beyond the contro will be enforced unless previously negoti	s ol iated.
Relinquished by: (Signature)	(Signature)	Receive	Received by: (Signature)	ıre)	Date/Time	Relinquished by: (Signa	y: (Signature)	Received by: (Signature)	nature) Date/Time
2 Horth	Sarry's Khary	()in	MA		9-8-22	248			
3	-	(ł						

Chain of Custody

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2894 List Number: 1 Creator: Clifton, Cloe

Question Answer Comment The cooler's custody seal, if present, is intact. True Sample custody seals, if present, are intact. True The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True

HTs) Sample containers have legible labels. True Containers are not broken or leaking. True Sample collection date/times are provided. True Appropriate sample containers are used. True Sample bottles are completely filled. True Sample Preservation Verified. N/A There is sufficient vol. for all requested analyses, incl. any requested True MS/MSDs

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

N/A

14

Job Number: 890-2894-1 SDG Number: 03A1987017

List Source: Eurofins Carlsbad

Job Number: 890-2894-1 SDG Number: 03A1987017

List Source: Eurofins Midland

List Creation: 09/09/22 11:04 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2894 List Number: 2 Creator: Rodriguez, Leticia

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

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



APPENDIX G

Email Correspondence

Released to Imaging: 5/16/2023 11:27:59 AM

From:	Joseph Hernandez
To:	ocd.enviro@state.nm.us; "CFO_Spill, BLM_NM"
Cc:	Raley, Jim; Devon-Team
Subject:	WPX Site Sampling Activity Update (9/6-9/9/22)
Date:	Friday, September 2, 2022 5:06:00 PM
Attachments:	image001.png image002.png image003.png image004.png

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between September 6 through September 9, 2022:

<u>Site: RDX Federal 28 #011H</u> API: 30-015-42109 Incident Number: nAPP2215732821

<u>Site: RDX 21-43</u> API: 30-015-40997 Incident Number: NAB1730640185

<u>Site: Saragossa 16 State 2</u> API: 30-015-31584 Incident Number: pAB1625253965

<u>Site: Brushy Gathering Facility</u> Incident Number: nAB1805133508

<u>Site: UCBH WW 3</u> API: 30-015-24451 Incident Numbers: nAB1702454101

<u>Site: RDX Federal 21 #044</u> API: 30-015-41193 Incident Number: nAPP2115533694



Joseph S. Hernandez Senior Geologist 281-702-2329 Ensolum, LLC

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	176853
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By Condition

We have received your closure report and final C-141 for Incident #NAB1625254125 SARAGOSSA 16 STATE #002, thank you. This closure is approved. 5/16/2023 rhamlet

CONDITIONS

Action 176853

Condition Date