

SITE CHARACTERIZATION AND REMEDIATION PLAN ADDENDUM

Prepared For:

WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220

Site Information:

Brushy Gathering Facility Incident Number nAB1805133508

Unit M, Section 25, Township 26 South, Range 29 East

Eddy County, New Mexico

(32.00576, -103.94400)

Carlsbad ● Houston ● Midland ● San Antonio ● Lubbock ● Hobbs ● Lafayette



SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Site Characterization and Remediation Plan Addendum (SCRPA) detailing recent delineation soil sampling activities associated with inadvertent release of produced water at the Brushy Gathering Facility (Site) (**Figure 1** in **Appendix A**). Based on laboratory analytical results from soil sampling activities at the Site, WPX proposes this SCRPA detailing updated remediation objectives to rectify environmental impacts.

SITE LOCATION AND RELEASE BACKGROUND

On February 5, 2018, it was discovered that an above ground poly line failure resulted in approximately 10 barrels (bbls) of produced water to be released onto a Right-Of-Way (ROW). Vacuum trucks were immediately dispatched and recovered approximately 7 bbls of standing fluids and additional fluids from draining the compromised poly line, which was subsequently removed. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on February 19, 2018, and was assigned Incident Number nAB1805133508. The observed release extent is presented as the Area of Concern (AOC) on **Figure 2** in **Appendix A**. It should be noted that the release was reported on the Form C-141 to have occurred in 2016, however, email correspondence documents the correct year of the release occurrence as stated above.

In September of 2022, a third-party environmental contractor conducted delineation activities to confirm details of the release provided on the Form C-141 and to characterize the AOC by verifying the presence or absence of impacted soil. Six delineation boreholes (BH01 through BH06) were advanced via hand auger, which sufficiently assessed the lateral and vertical extents of the AOC. Etech prepared a Site Characterization and Remediation Plan (SCRP) which was submitted to the NMOCD on August 22, 2024, and approved with the following conditions:

"Remediation plan conditionally approved. Vertical delineation must be completed through excavation and confirmation sampling pursuant to 19.15.29.12 NMAC. Remediation confirmation samples must meet the most stringent remediation closure criteria found on Table I of 19.15.29 NMAC. Confirmation samples must be 5-point composite samples not representative of more than 200 square feet. This area is considered not reasonably needed for production operations or for subsequent drilling operations therefore, it must meet the requirements of 19.15.29.13 NMAC at the time of remediation. The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. OCD will NOT approve the proposed schedule of completing remediation of this site concurrently with the proposed work associated with Incident Numbers nAB1501655607, nAB1504154780, nAB1522341642, nAB1621453181, nAB1633639499, nAPP2230032326, located due west of the site. The proposed workplans for the adjacent releases were denied. Submit a complete remediation closure report through the OCD Permitting website by 11/22/2024. A complete reclamation report can be submitted with the closure report or can be submitted after the closure report is approved."

However, due to the age of the data, WPX conducted additional delineation within and around the AOC to reassess the conditions of the Site prior to advancing an excavation on a ROW adjacent to a highly trafficked location. Previous remediation summaries may be referenced in the approved SCRP, and the recent remediation activities are detailed in this SCRPA.



SITE CHARACTERIZATION AND CLOSURE CRITERIA

As previously described in the SCRP, Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- · Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine:
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

Receptor details and sources used to determine the site characterization are included in **Figure 1A**, **Figure 1B**, and **Figure 1C** in **Appendix A**. The referenced well record used for determining estimated groundwater depth at the Site is included in **Appendix B**.

Based on the results from the desktop review, specifically the designated karst potential at the Site and the proximity to a wetland feature, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [†]
Chloride	Environmental Protection Agency (EPA) 300.0	600 milligram per kilogram (mg/kg)
TPH (Total Petroleum Hydrocarbon)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B or EPA 8260B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B or EPA 8260B	50 mg/kg

[†]The reclamation standard concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

DELINEATION SOIL SAMPLING ACTIVITIES

On November 19, 2024, Etech conducted additional delineation activities to reassess the AOC by verifying the presence or absence of residual impacted soil compared to the previous delineation soil sampling event. Nine delineation boreholes (BH01 through BH09) were advanced via hand auger within and around the AOC and were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of three soil samples were collected from each delineation soil sampling location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions are included on soil sampling logs shown in **Appendix C**. The



locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix D**.

The delineation soil samples were placed directly into lab provided pre-cleaned jars, packed with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of COCs.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of COCs for all delineation soil samples were below the applicable Site Closure Criteria, except soil samples collected from within the AOC (BH02 and BH04 through BH06) up to 1-foot bgs. Laboratory analytical results associated with chloride exceedances above the Closure Criteria ranged from 785 mg/kg to 3,760 mg/kg.

Laboratory analytical results are summarized in Table 1 in **Attachment E**, and the complete laboratory reports with chain-of-custody documentation is included in **Attachment F**.

PROPOSED REMEDIATION WORK PLAN AND SCHEDULE

Based on the current delineation soil sampling results, the following conclusions regarding the release are presented:

Identified chloride soil impacts with concentrations above the Closure Criteria exist within the top
1-foot throughout the AOC, except within proximity of BH01. As such, BH01 appears to be
sufficient lateral delineation the eastern periphery of the AOC. Laboratory analytical results for
COC concentrations for the remaining delineation soil samples are below the Site Closure
Criteria, which sufficiently provides horizontal and vertical delineation of the AOC at the Site in
conjunction with previous delineation presented in the SCRP.

Based on the conclusions drawn above, WPX proposes the following remedial corrective actions:

- Removal of impacted soil indicated by elevated chloride concentrations above the applicable Site
 Closure Criteria. The excavation will be advanced vertically and laterally until the applicable Site
 Closure Criteria is met. Based on current delineation soil sampling results, an estimated 148
 cubic yards of impacted soil is anticipated to be removed from the Site in accordance with state
 and federal regulations.
- Following removal of soil impacts, 5-point composite confirmation soil samples will be collected from the excavation and analyzed by an accredited laboratory in accordance with NMAC 19.15.29.12.D. Excavated soil will then be transferred to an approved landfill facility for disposal.
 - (1) If the excavation area is smaller than the AOC and laboratory analytical results of floor and sidewall excavation confirmation soil samples are compliant with the Site Closure Criteria, additional confirmation soil samples will be collected from the remaining surface area of the AOC. Soil samples will be collected and analyzed as previously described.
- Upon receipt of soil confirmation results indicating impacted soil has been removed, the excavation will be backfilled with clean, locally sourced soil and restored to "as close to its original state" as possible. A reclamation report will also be included in the Closure Request Report.



PROPOSED TIMELINE

Upon approval of this SCRPA, WPX proposed to initiate corrective actions within 90-days of the approval date. Since the AOC is location is situated on both a subsurface pipeline and powerline ROW, coordination efforts to initiate an excavation includes, but are not limited to:

- · Removal of overhead power lines,
- Daylighting subsurface utilities, and
- Coordination and scheduling for utility representative for onsite activities.

LIMITATIONS

Etech has prepared this SCRPA to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

Based on the proposed scope of work, WPX believes the proposed remedial actions will meet the requirements set forth in NMAC 19.15.29.13 regulations to be protective of human health, the environment and groundwater. If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or joseph@etechenv.com or Anna Byers at (432) 305-6415 or anna@etechenv.com. Email correspondence regarding the Site and archived reports are included in Appendix G and Appendix H in this SCRPA, respectively.

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

Anna Byers Senior Geologist

cc: Jim Raley, WPX

New Mexico Oil Conservation Division

Bureau of Land Management

Joseph S. Hernandez Senior Managing Geologist



Appendices:

Appendix A Figure 1: Site Map

Figure 1A: Site Characterization Map – Groundwater

Figure 1B: Site Characterization Map – Surficial Receptors

Figure 1C: Site Characterization Map – Karst Potential

Figure 2: Delineation Soil Sample Locations

Appendix B Referenced Well Record

Appendix C Soil Sampling Logs

Appendix D Photographic Log

Appendix E Tables

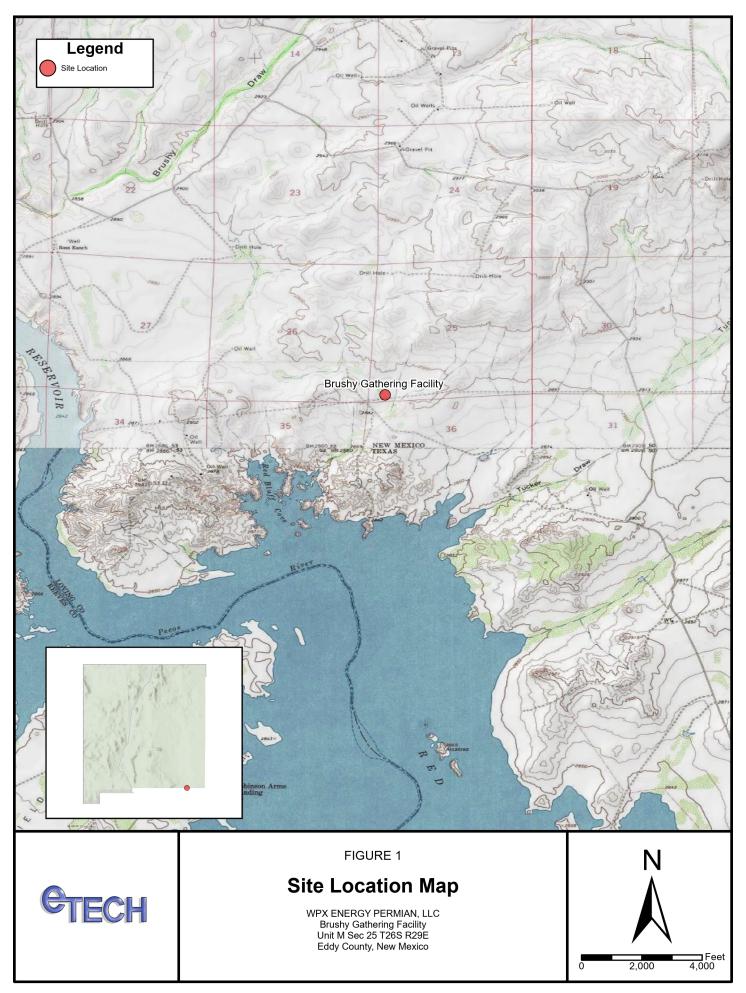
Appendix F Laboratory Analytical Reports & Chain-of-Custody Documentation

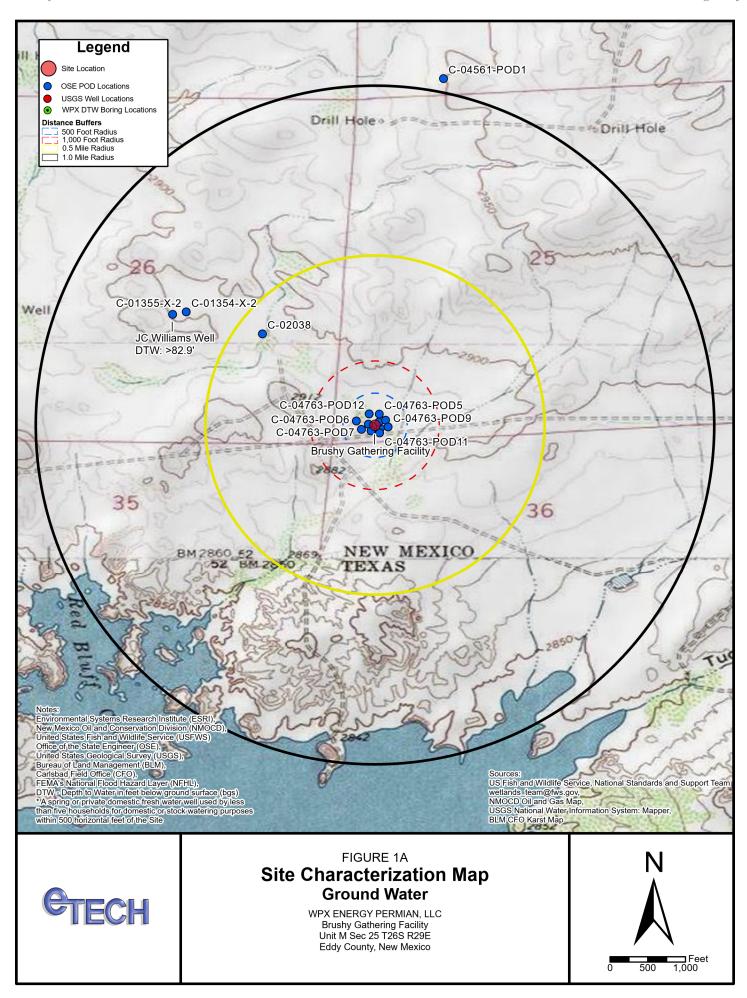
Appendix G Correspondence & Notifications

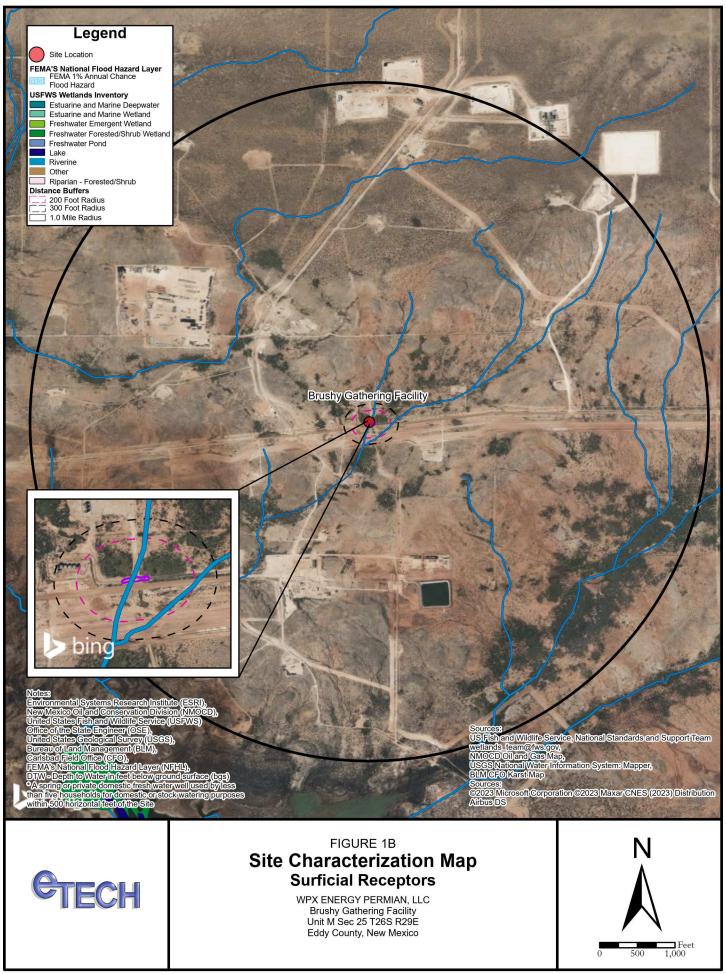
APPENDIX A

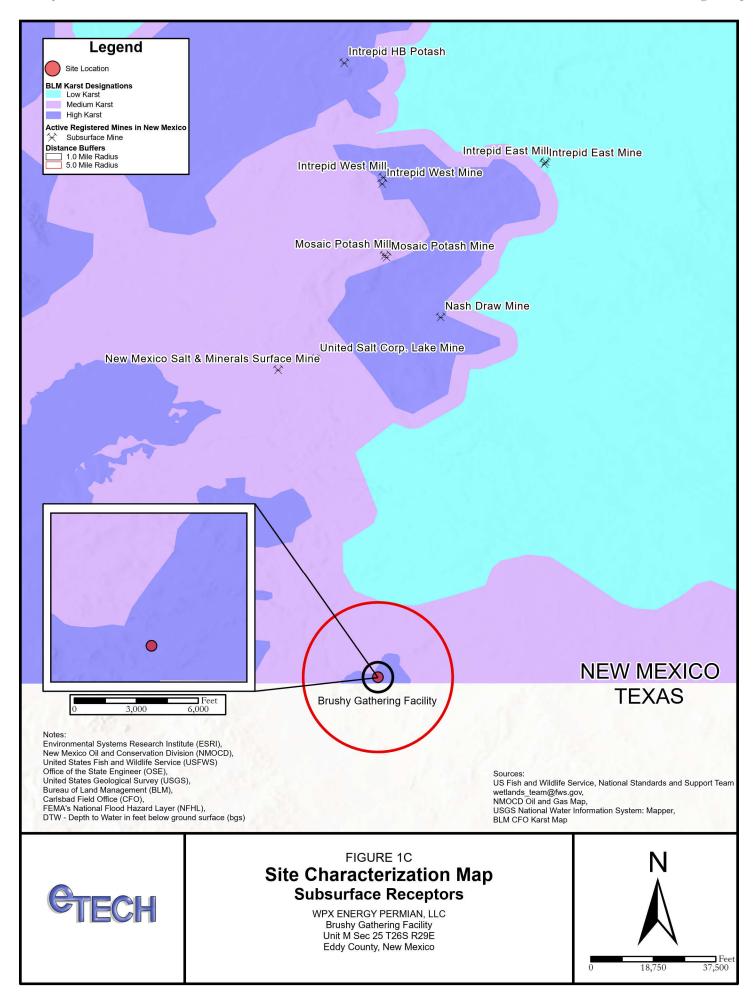
Figures

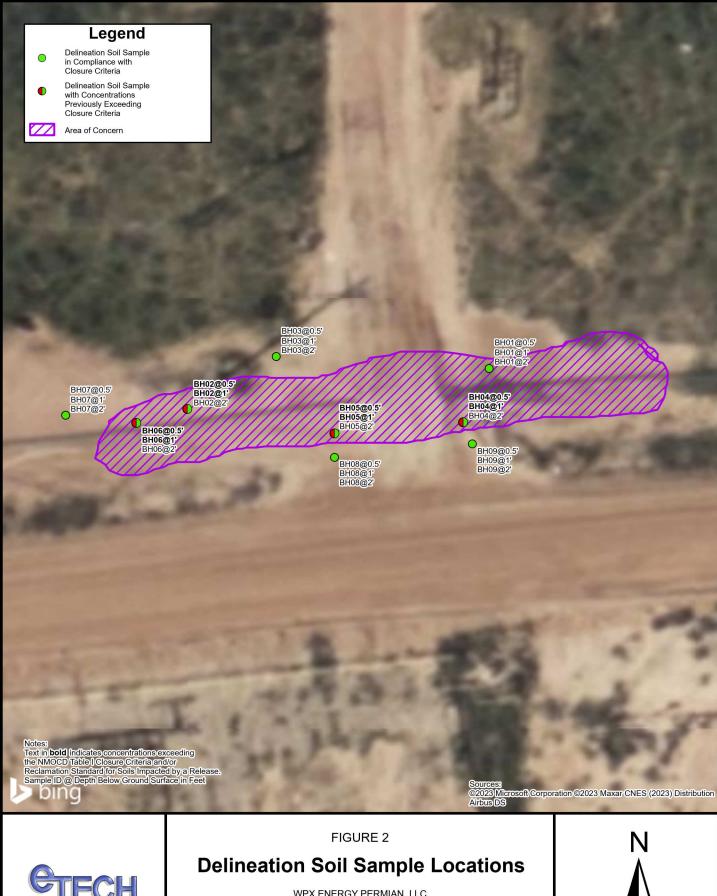






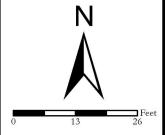








WPX ENERGY PERMIAN, LLC Brushy Gathering Facility Unit M Sec 25 T26S R29E Eddy County, New Mexico



APPENDIX B

Referenced Well Record

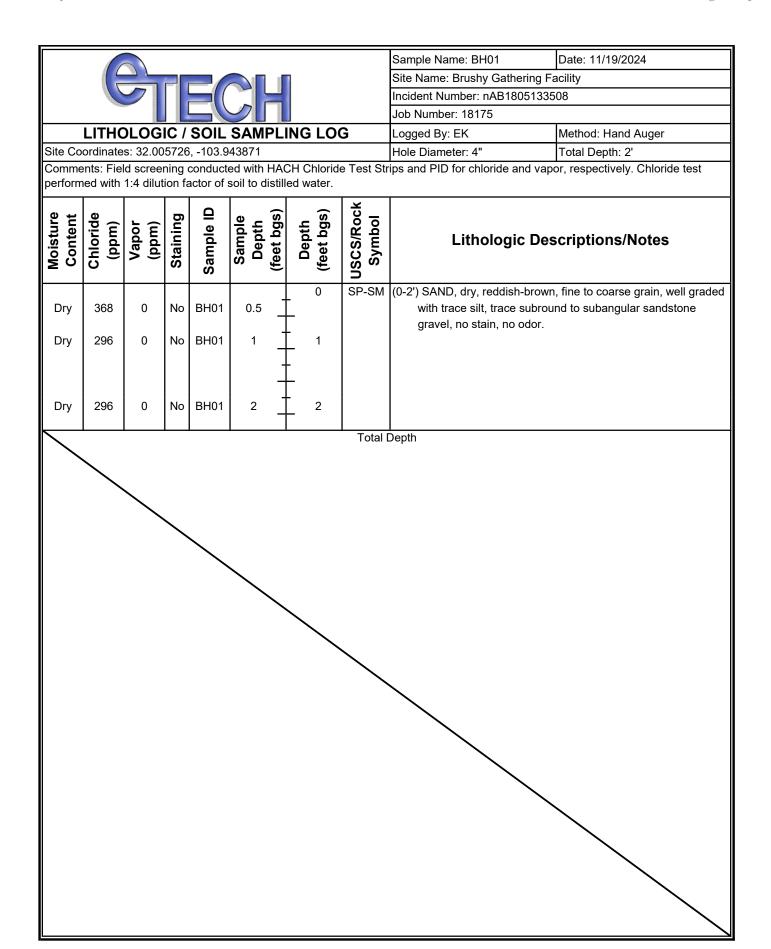


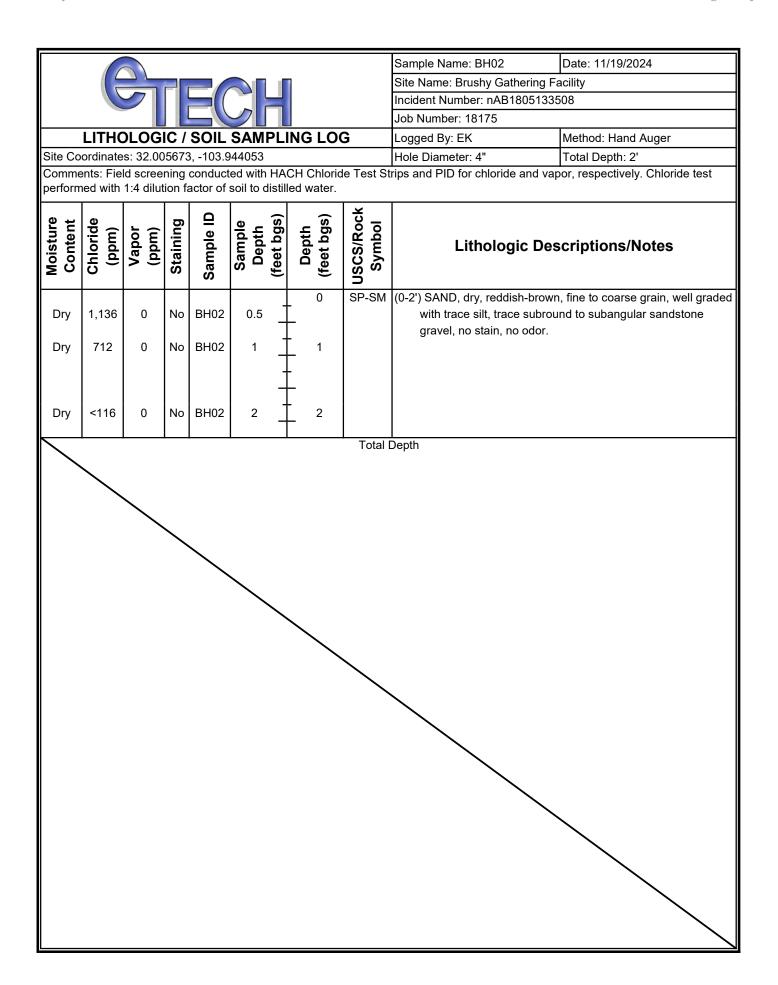
ceived by OCD: 11/22/2024 5:24:49	PM									Page 14 o
ient: Devon Energy										
roject Name: JC Williams Well GW measurement				G	ROUNDW	ATER SA	MPLING F	ORM		
oject Location: 32.0105289,-103.9534960 oject Manager: Joseph Hernandez										
SAMPLING INFORMATION		Soil Boring / M	Ionitor Well Num A1987013	nber: NA						
te Completed: 08/15/2022		Type of Water								
al Depth of Monitor Well: NA		Date Calibrate								
reen Interval: NA		Other Notes:_	used decor	ntaminated	water level i	ndicator me	ter to meas	ure groundy	vater depth i	n existing well
mple Tubing Intake Depth: NA ologist: Gilbert Moreno		-							-	
Tubing Placement GW Depth (static)	After Purge	Time (minutes)	Purge Rate (L/min)	Temp.	pH (unitless)	DO (mg/L)	ORP (mV)	Cond. (mS/cm)	GW Depth (feet)	Comments:
		NR	NR	NR	NR	NR	NR	NR	82.9	NA = Not Available NR = Not Recorded
										■ ENSOLUM

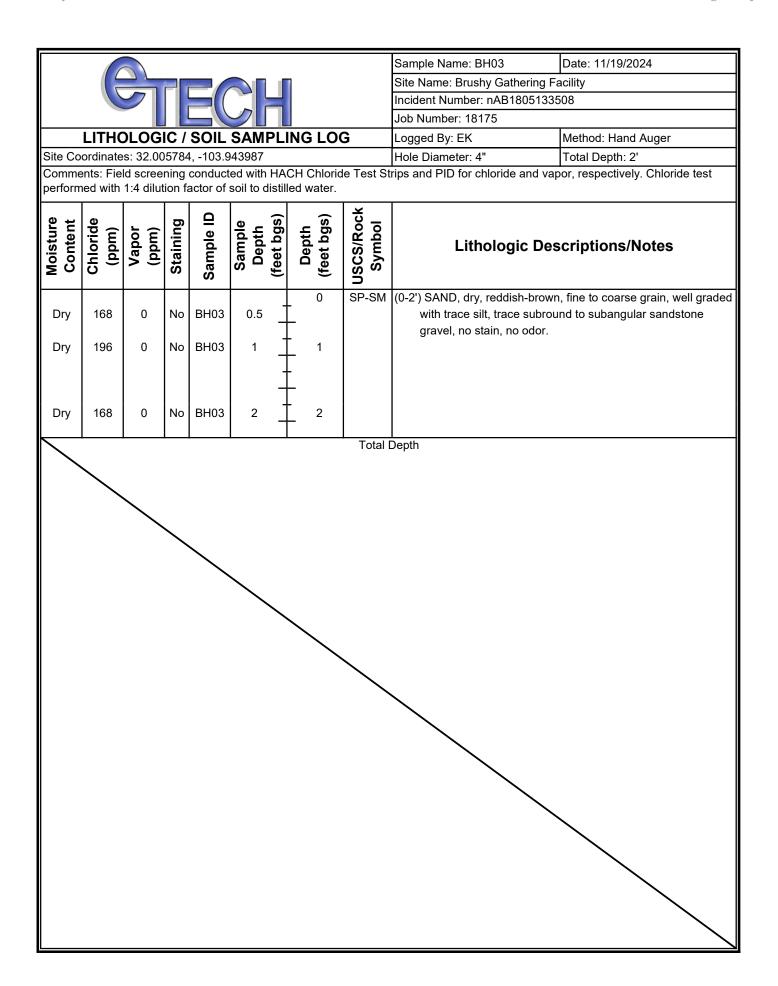
APPENDIX C

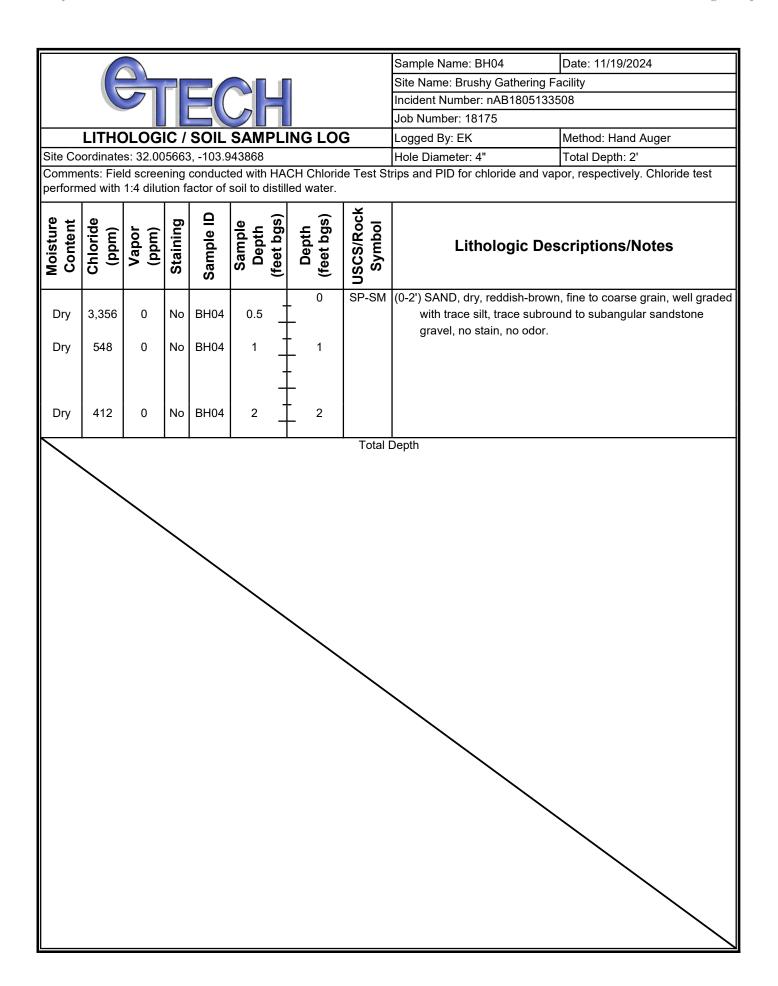
Soil Sampling Logs

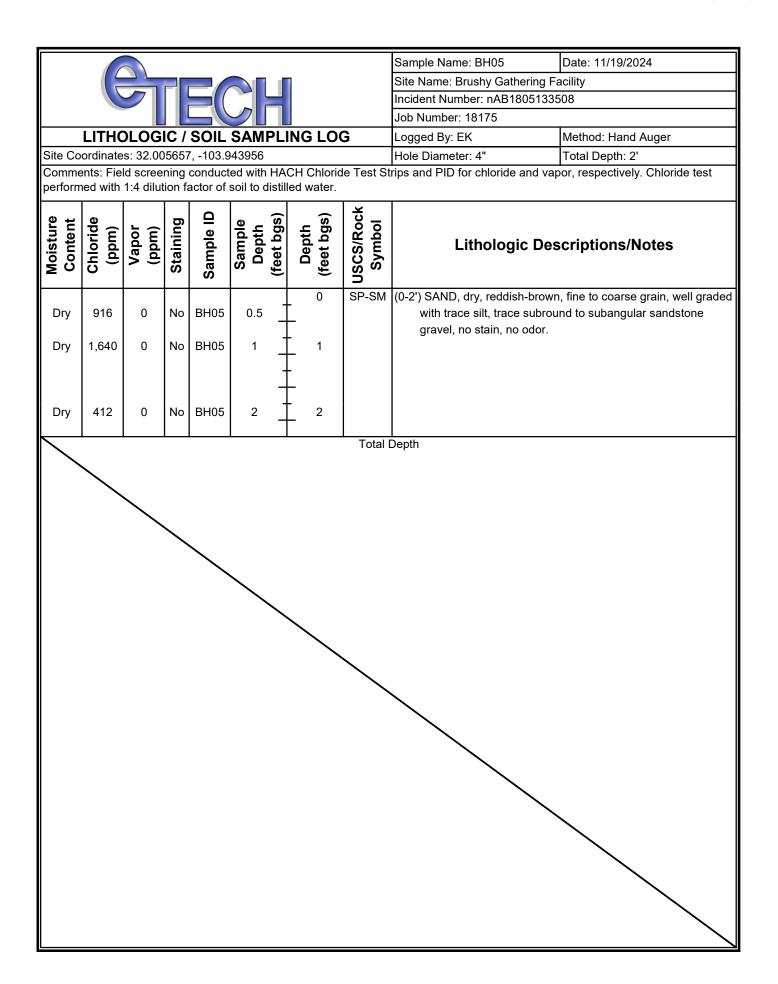


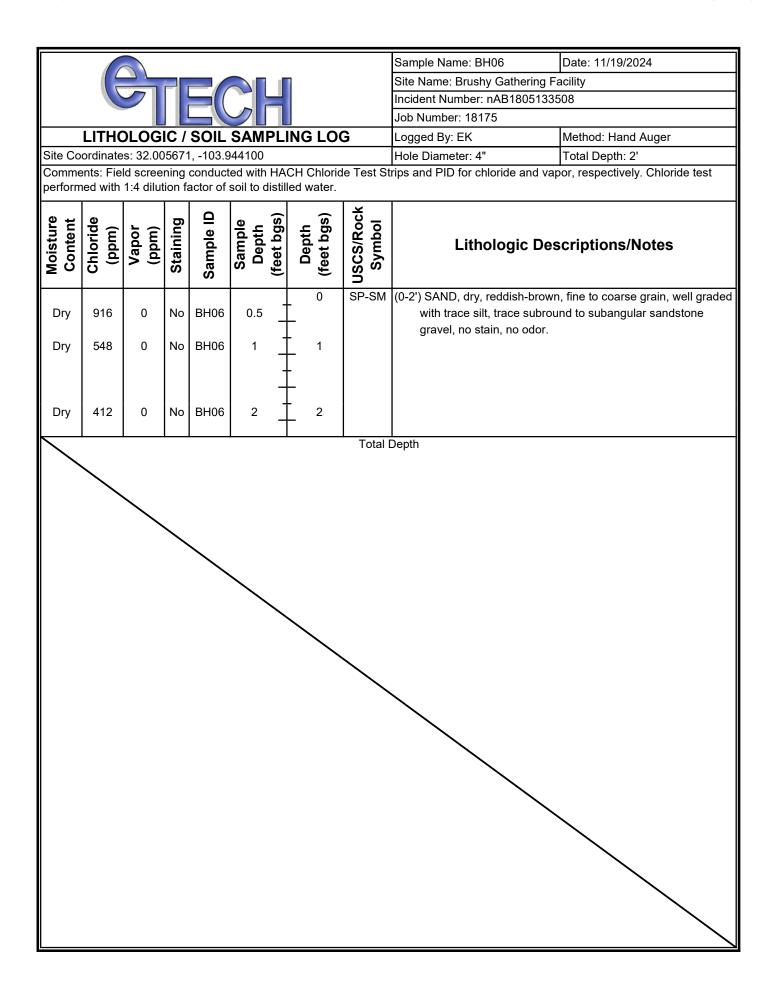


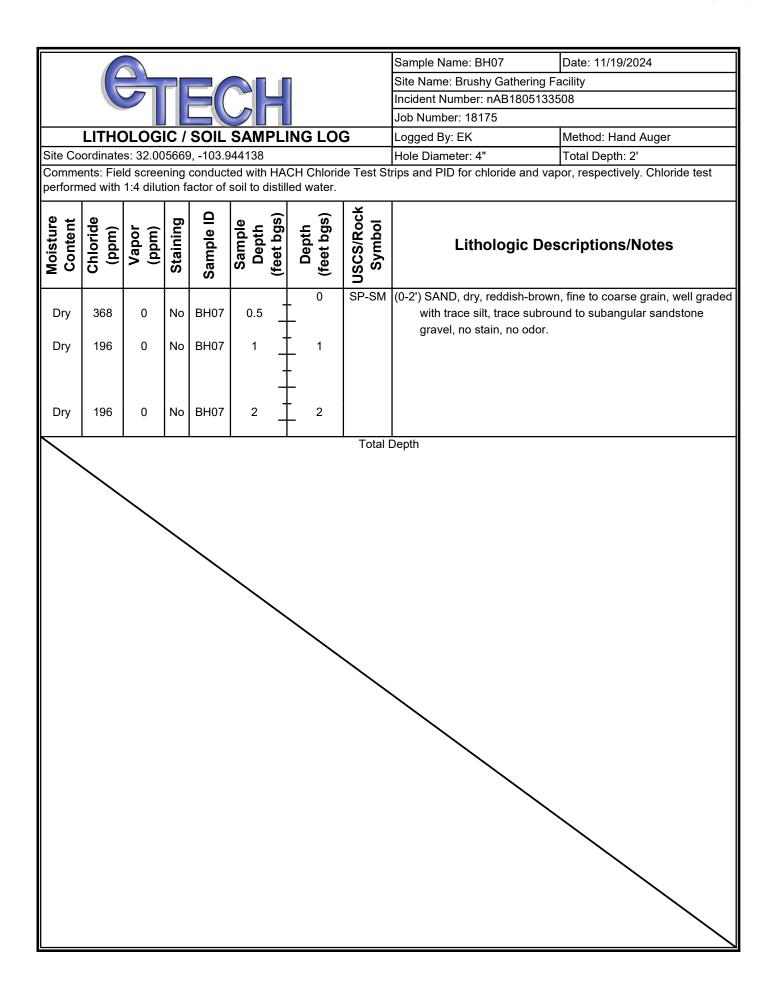


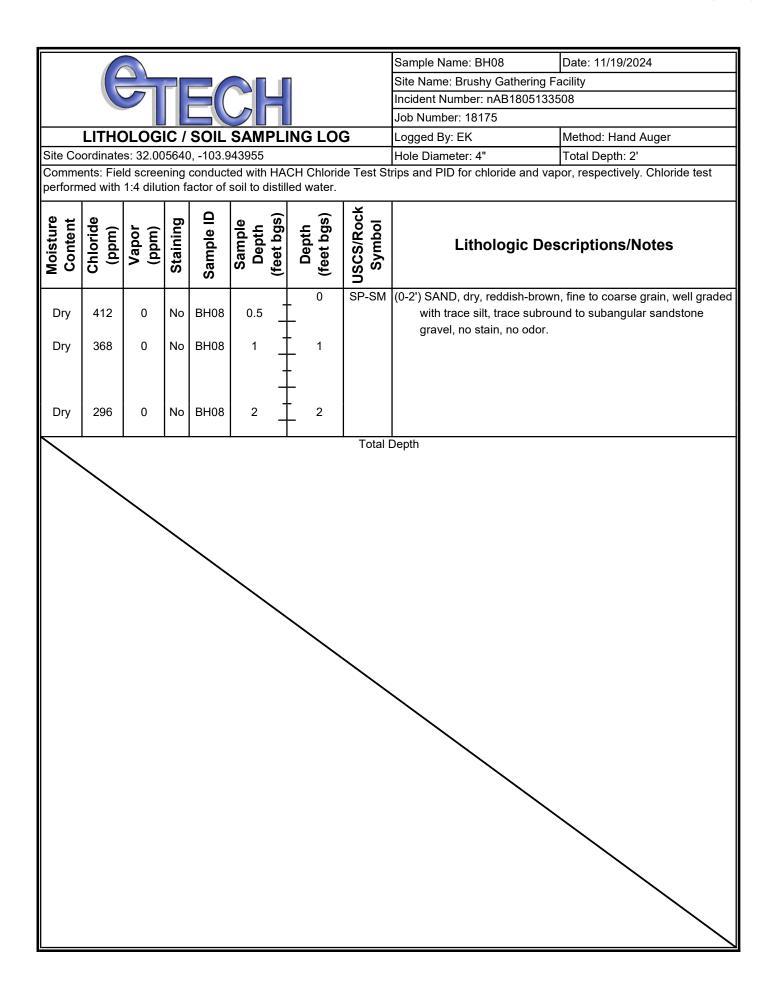


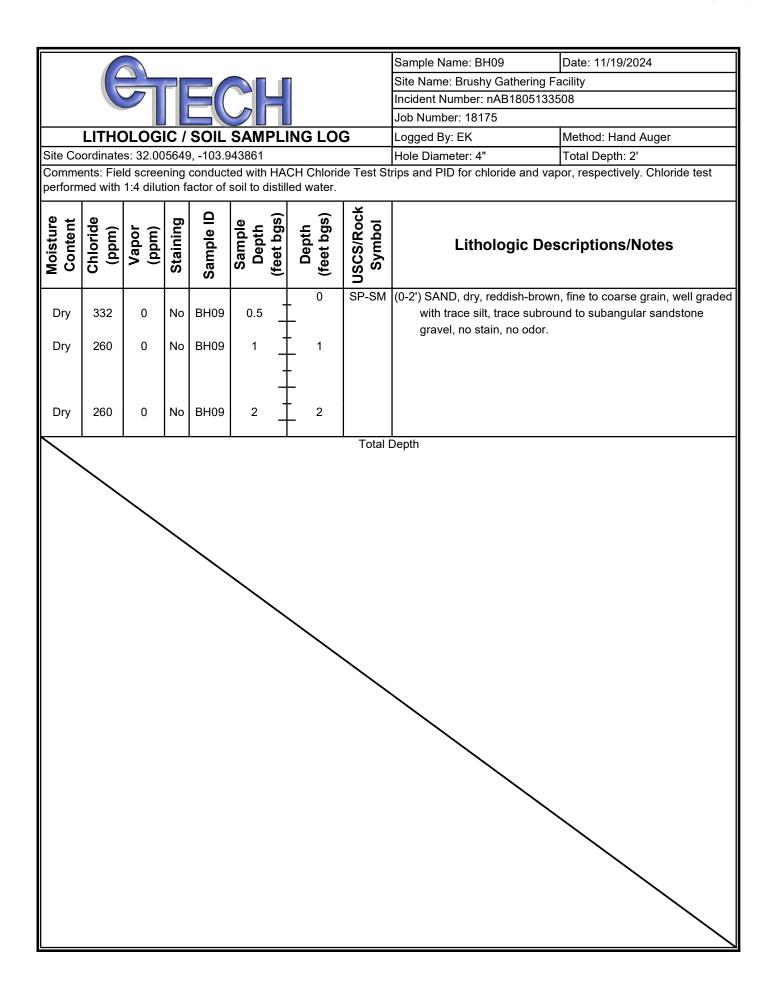












APPENDIX D

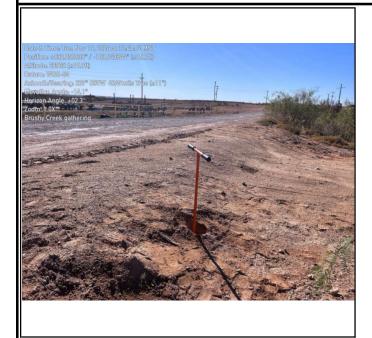
Photographic Log





PHOTOGRAPHIC LOG

WPX Energy Permian, LLC Brushy Gathering Facility Incident Number nAB1805133508



Photograph 1 Date: 11/19/2024 Description: Southwestern view of delineation activities south of the AOC.



Photograph 3 Date: 11/19/2024
Description: Northern view of delineation activities south of the AOC.



Photograph 2 Date: 11/19/2024
Description: South to southwestern view of delineation activities north of the AOC.



Photograph 4 Date: 11/19/2024 Description: Northeastern view of delineation activities within the AOC.

APPENDIX E

Tables





Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Brushy Gathering Facility Eddy County, New Mexico

Sample I.D. NMOCD Table I Closur	Sample Date e Criteria for Soil	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
Release (NMAC 19.15.2			10	50	NE	NE	NE	100	600
Delineation Soil Samples - Incident Number nAB1805133508									
BH01	11/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	169 [†]
BH01	11/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	57.9 [†]
BH01	11/19/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	172 [†]
BH02	11/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	899 ⁺
BH02	11/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	861 [†]
BH02	11/19/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	115 [†]
BH03	11/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	175 [†]
BH03	11/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	174 [†]
BH03	11/19/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	186 [†]
BH04	11/19/2024	0.5	<0.0250	<0.0500	<20.0	37.8	60.2	98.0	3,760 [†]
BH04	11/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	785 [†]
BH04	11/19/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	164 [†]
BH05	11/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,390 [†]
BH05	11/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	878 [†]
BH05	11/19/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	170 [†]
BH06	11/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,630 [†]
BH06	11/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	807 [†]
BH06	11/19/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	167 [†]
BH07	11/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	178 [†]
BH07	11/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	167 [†]
BH07	11/19/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	107 [†]
BH08	11/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	56.6 [†]
BH08	11/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	243 ⁺



Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Brushy Gathering Facility 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)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closur Release (NMAC 19.15.2		s Impacted by a	10	50	NE	NE	NE	100	600
			De	elineation Soil Samples	- Incident Number nA	B1805133508			
BH08	11/19/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	168 [†]
BH09	11/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	82.3 [†]
BH09	11/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	232^{\dagger}
BH09	11/19/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	165 [†]

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in ""grey"" represents excavated soil samples

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

[†] The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation



Report to:
Anna Byers







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Brushy Gathering Facility

Work Order: E411215

Job Number: 01058-0007

Received: 11/21/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/22/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/22/24

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Brushy Gathering Facility

Workorder: E411215

Date Received: 11/21/2024 8:15:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/21/2024 8:15:00AM, under the Project Name: Brushy Gathering Facility.

The analytical test results summarized in this report with the Project Name: Brushy Gathering Facility apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	Donovtoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/24 16:05

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E411215-01A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH01 1'	E411215-02A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH01 2'	E411215-03A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH02 0.5'	E411215-04A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH02 1'	E411215-05A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH02 2'	E411215-06A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH03 0.5'	E411215-07A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH03 1'	E411215-08A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH03 2'	E411215-09A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH04 0.5'	E411215-10A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH04 1'	E411215-11A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH04 2'	E411215-12A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH05 0.5'	E411215-13A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH05 1'	E411215-14A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH05 2'	E411215-15A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH06 0.5'	E411215-16A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH06 1'	E411215-17A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH06 2'	E411215-18A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH07 0.5'	E411215-19A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH07 1'	E411215-20A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH07 2'	E411215-21A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH08 0.5'	E411215-22A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH08 1'	E411215-23A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH08 2'	E411215-24A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH09 0.5'	E411215-25A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH09 1'	E411215-26A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.
BH09 2'	E411215-27A	Soil	11/19/24	11/21/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH01 0.5' E411215-01

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg mg/kg			Analyst: RKS			Batch: 2447078
Benzene	ND	0.0250	1	l	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	l	11/21/24	11/21/24	
Toluene	ND	0.0250	1	l	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	l	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	l	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		104 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		104 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	ي .	Analyst:	RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		104 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		104 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/21/24	11/21/24	
Surrogate: n-Nonane		101 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2447086



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH01 1'

		E411215-02					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: R	RKS		Batch: 2447078
Benzene	ND	0.0250	1	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		104 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		105 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	_	Analyst: R	RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		104 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		105 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: N	IV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/21/24	11/21/24	
Surrogate: n-Nonane		99.4 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: Γ)T		Batch: 2447086
Chloride	57.9	20.0	1		11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH01 2'

		E411215-03					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2447078
Benzene	ND	0.0250	1	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		108 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		104 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		108 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		104 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/21/24	11/21/24	
Surrogate: n-Nonane		92.4 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2447086
Chloride	172	20.0	1	1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH02 0.5' E411215-04

		E411213-04					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
· ·				Analyst:	•		Batch: 2447078
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst		11/21/24	Batcn: 244/0/8
Benzene	ND	0.0250]		11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	l	11/21/24	11/21/24	
Toluene	ND	0.0250	1	l	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	l	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	l	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	l	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		104 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		105 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		104 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		105 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/21/24	11/21/24	
Surrogate: n-Nonane		97.2 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2447086
Chloride	899	20.0	1	1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH02 1' E411215-05

Analyte	Result	Reporting Limit	Dilut	tion Prepare	d Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS	•	Batch: 2447078
Benzene	ND	0.0250	1	11/21/24	4 11/21/24	
Ethylbenzene	ND	0.0250	1	11/21/24	4 11/21/24	
Toluene	ND	0.0250	1	11/21/24	4 11/21/24	
o-Xylene	ND	0.0250	1	11/21/24	4 11/21/24	
p,m-Xylene	ND	0.0500	1	11/21/24	4 11/21/24	
Total Xylenes	ND	0.0250	1	11/21/24	4 11/21/24	
Surrogate: Bromofluorobenzene		108 %	70-130	11/21/2-	4 11/21/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	11/21/2	4 11/21/24	
Surrogate: Toluene-d8		105 %	70-130	11/21/2	4 11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/24	4 11/21/24	
Surrogate: Bromofluorobenzene		108 %	70-130	11/21/2	4 11/21/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	11/21/2	4 11/21/24	
Surrogate: Toluene-d8		105 %	70-130	11/21/2	4 11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/24	4 11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/24	4 11/21/24	
Surrogate: n-Nonane		101 %	50-200	11/21/2	4 11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2447086
Chloride	861	20.0	1	11/21/24	4 11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH02 2'

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2447078
Benzene	ND	0.0250		1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250		1	11/21/24	11/21/24	
Toluene	ND	0.0250		1	11/21/24	11/21/24	
o-Xylene	ND	0.0250		1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500		1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	į	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene	·	103 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		107 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		103 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		107 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0		1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0		1	11/21/24	11/21/24	
Surrogate: n-Nonane		104 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2447086
-	115	20.0		1	11/21/24	11/21/24	•



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH03 0.5' E411215-07

		E411213-07					
Analyte	Result	Reporting Limit		ıtion	Prepared	Analyzed	Notes
· ·					•	7 mary 200	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2447078
Benzene	ND	0.0250	1	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		103 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		108 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		103 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		108 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/21/24	11/21/24	
Surrogate: n-Nonane		112 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2447086
Chloride	175	20.0	1	1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH03 1'

E411215-08								
Reporting								
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RK	S		Batch: 2447078	
Benzene	ND	0.0250	1	1	11/21/24	11/21/24		
Ethylbenzene	ND	0.0250	1	1	11/21/24	11/21/24		
Toluene	ND	0.0250	1	1	11/21/24	11/21/24		
o-Xylene	ND	0.0250	1	1	11/21/24	11/21/24		
p,m-Xylene	ND	0.0500	1	1	11/21/24	11/21/24		
Total Xylenes	ND	0.0250	1	1	11/21/24	11/21/24		
Surrogate: Bromofluorobenzene		105 %	70-130		11/21/24	11/21/24		
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		11/21/24	11/21/24		
Surrogate: Toluene-d8		102 %	70-130		11/21/24	11/21/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RK	S		Batch: 2447078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/21/24	11/21/24		
Surrogate: Bromofluorobenzene		105 %	70-130		11/21/24	11/21/24		
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		11/21/24	11/21/24		
Surrogate: Toluene-d8		102 %	70-130		11/21/24	11/21/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV	,		Batch: 2447076	
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/21/24	11/21/24		
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/21/24	11/21/24		
Surrogate: n-Nonane		106 %	50-200		11/21/24	11/21/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT			Batch: 2447086	

20.0

11/21/24

11/21/24

174



Chloride

WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH03 2' E411215-09

Analyte	Result	Reporting Limit	Dilut	tion I	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS	-		Batch: 2447078
Benzene	ND	0.0250	1	-	1/21/24	11/21/24	Batch: 2117070
Ethylbenzene	ND	0.0250	1		1/21/24	11/21/24	
Toluene	ND	0.0250	1	1	1/21/24	11/21/24	
o-Xylene	ND	0.0250	1	1	1/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	1	1/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	1	1/21/24	11/21/24	
Surrogate: Bromofluorobenzene		102 %	70-130	i	11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	i	11/21/24	11/21/24	
Surrogate: Toluene-d8		105 %	70-130	i	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS	S		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	1/21/24	11/21/24	
Surrogate: Bromofluorobenzene		102 %	70-130	i	11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	i	11/21/24	11/21/24	
Surrogate: Toluene-d8		105 %	70-130	i	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV			Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	1	1	1/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	1/21/24	11/21/24	
Surrogate: n-Nonane		111 %	50-200	j	11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT			Batch: 2447086
Chloride	186	20.0	1		1/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH04 0.5' E411215-10

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RK	XS		Batch: 2447078
Benzene	ND	0.0250	1		11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1		11/21/24	11/21/24	
Toluene	ND	0.0250	1		11/21/24	11/21/24	
o-Xylene	ND	0.0250	1		11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1		11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1		11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		107 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		105 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	,	Analyst: RK	KS .		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	1	Į.	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		107 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		105 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV	I		Batch: 2447076
Diesel Range Organics (C10-C28)	37.8	25.0	1		11/21/24	11/21/24	
Oil Range Organics (C28-C36)	60.2	50.0	1		11/21/24	11/21/24	
Surrogate: n-Nonane		104 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT	Γ		Batch: 2447086
Chloride	3760	40.0	2	2	11/21/24	11/21/24	·

WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH04 1'

		E411215-11					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2447078
Benzene	ND	0.0250	1	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250		1	11/21/24	11/21/24	
Toluene	ND	0.0250		1	11/21/24	11/21/24	
o-Xylene	ND	0.0250		1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500		1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250		1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		83.7 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		120 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		83.7 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		120 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0		1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0		1	11/21/24	11/21/24	
Surrogate: n-Nonane		102 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2447086
Chloride	785	20.0		1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH04 2'

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2447078
Benzene	ND	0.0250		1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250		1	11/21/24	11/21/24	
Toluene	ND	0.0250		1	11/21/24	11/21/24	
o-Xylene	ND	0.0250		1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500		1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250		1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		87.3 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		103 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		87.3 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		103 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0		1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0		1	11/21/24	11/21/24	
Surrogate: n-Nonane		110 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2447086
Chloride	164	20.0		1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH05 0.5' E411215-13

Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
	mg/kg	mg/kg		analyst: RKS	7 11111/ 200	Batch: 2447078
Volatile Organic Compounds by EPA 8260B			1	11/21/24	11/21/24	Batch. 2447078
Benzene	ND	0.0250	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250				
Toluene	ND	0.0250	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		95.7 %	70-130	11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	11/21/24	11/21/24	
Surrogate: Toluene-d8		102 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		95.7 %	70-130	11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	11/21/24	11/21/24	
Surrogate: Toluene-d8		102 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/24	11/21/24	
Surrogate: n-Nonane		94.2 %	50-200	11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: DT		Batch: 2447086
Chloride	1390	20.0	1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH05 1'

E411215-14							
Reporting							
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RI	KS .		Batch: 2447078
Benzene	ND	0.0250	1	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		104 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		101 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RI	KS .		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		104 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		101 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: N	/		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/21/24	11/21/24	
Surrogate: n-Nonane		93.2 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: D	Γ		Batch: 2447086

20.0

11/21/24

11/21/24

878



Chloride

WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH05 2'

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2447078
Benzene	ND	0.0250		1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250		1	11/21/24	11/21/24	
Toluene	ND	0.0250		1	11/21/24	11/21/24	
o-Xylene	ND	0.0250		1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500		1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	į	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		94.8 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		101 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		94.8 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		101 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0		1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0		1	11/21/24	11/21/24	
Surrogate: n-Nonane		99.0 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2447086
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WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH06 0.5' E411215-16

		E411213-10					
Analista	Dogult	Reporting	Dil	nti on	Duomonod	Analyzad	Notes
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2447078
Benzene	ND	0.0250		1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250		1	11/21/24	11/21/24	
Toluene	ND	0.0250		1	11/21/24	11/21/24	
o-Xylene	ND	0.0250		1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500		1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250		1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		98.0 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		103 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	kg mg/kg Analyst: RKS			Batch: 2447078		
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		98.0 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		103 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	_	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0		1	11/21/24	11/21/24	
Surrogate: n-Nonane		99.5 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2447086
Chloride	1630	20.0		1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH06 1'

		E411215-17					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2447078
Benzene	ND	0.0250	1	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		97.5 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		102 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		97.5 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		102 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/21/24	11/21/24	
Surrogate: n-Nonane		98.1 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2447086
Chloride	807	20.0	1	1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH06 2' E411215-18

		2111210 10				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2447078
Benzene	ND	0.0250	1	11/21/24	11/21/24	Batem 2 1 1 7 0 7 0
Ethylbenzene	ND	0.0250	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		98.6 %	70-130	11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/21/24	11/21/24	
Surrogate: Toluene-d8		103 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		98.6 %	70-130	11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/21/24	11/21/24	
Surrogate: Toluene-d8		103 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/24	11/21/24	
Surrogate: n-Nonane		98.3 %	50-200	11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2447086
Chloride	167	20.0	1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH07 0.5' E411215-19

	- I	Reporting			D 1		N.
Analyte	Result	Limit	Dıl	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2447078
Benzene	ND	0.0250		1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250		1	11/21/24	11/21/24	
Toluene	ND	0.0250		1	11/21/24	11/21/24	
o-Xylene	ND	0.0250		1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500		1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250		1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		97.7 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		103 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		97.7 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		103 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0		1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0		1	11/21/24	11/21/24	
Surrogate: n-Nonane		100 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2447086
Chloride	178	20.0		1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH07 1'

		E411215-20					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2447078
Benzene	ND	0.0250		1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250		1	11/21/24	11/21/24	
Toluene	ND	0.0250		1	11/21/24	11/21/24	
o-Xylene	ND	0.0250		1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500		1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250		1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		97.0 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		104 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2447078
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/21/24	11/21/24	
Surrogate: Bromofluorobenzene		97.0 %	70-130		11/21/24	11/21/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		11/21/24	11/21/24	
Surrogate: Toluene-d8		104 %	70-130		11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2447076
Diesel Range Organics (C10-C28)	ND	25.0	_	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0		1	11/21/24	11/21/24	
Surrogate: n-Nonane		104 %	50-200		11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2447086
Chloride	167	20.0		1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH07 2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2447080
Benzene	ND	0.0250	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	11/21/24	11/21/24	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2447080
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/24	11/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KH		Batch: 2447081
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/24	11/21/24	
Surrogate: n-Nonane		99.1 %	50-200	11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: DT		Batch: 2447090
Chloride	107	20.0	1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH08 0.5'

		E411215-22				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2447080
Benzene	ND	0.0250	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	11/21/24	11/21/24	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: BA		Batch: 2447080
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/24	11/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KH		Batch: 2447081
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/24	11/21/24	
Surrogate: n-Nonane		111 %	50-200	11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: DT		Batch: 2447090
Chloride	56.6	20.0	1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH08 1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2447080
Benzene	ND	0.0250	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	11/21/24	11/21/24	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2447080
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/24	11/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KH		Batch: 2447081
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/24	11/21/24	
Surrogate: n-Nonane		100 %	50-200	11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2447090



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH08 2'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2447080
Benzene	ND	0.0250	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	11/21/24	11/21/24	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2447080
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/24	11/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KH		Batch: 2447081
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/24	11/21/24	
Surrogate: n-Nonane		97.5 %	50-200	11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2447090
Chloride	168	20.0	1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH09 0.5'

		E411215-25				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2447080
Benzene	ND	0.0250	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	11/21/24	11/21/24	
Surrogate: 4-Bromochlorobenzene-PID		86.4 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2447080
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/24	11/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KH		Batch: 2447081
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/24	11/21/24	
Surrogate: n-Nonane		90.1 %	50-200	11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2447090
Chloride	82.3	20.0	1	11/21/24	11/21/24	



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH09 1'

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	Analyst: SL		Batch: 2447080
Benzene	ND	0.0250	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	11/21/24	11/21/24	
Surrogate: 4-Bromochlorobenzene-PID		85.2 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: SL		Batch: 2447080
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/24	11/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KH		Batch: 2447081
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/24	11/21/24	
Surrogate: n-Nonane		92.4 %	50-200	11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2447090
Chloride	232	20.0	1	11/21/24	11/21/24	•



WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

BH09 2'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	Analyst: SL		Batch: 2447080
Benzene	ND	0.0250	1	11/21/24	11/21/24	
Ethylbenzene	ND	0.0250	1	11/21/24	11/21/24	
Toluene	ND	0.0250	1	11/21/24	11/21/24	
o-Xylene	ND	0.0250	1	11/21/24	11/21/24	
p,m-Xylene	ND	0.0500	1	11/21/24	11/21/24	
Total Xylenes	ND	0.0250	1	11/21/24	11/21/24	
Surrogate: 4-Bromochlorobenzene-PID		85.5 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2447080
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/24	11/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	11/21/24	11/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KH		Batch: 2447081
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/24	11/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/24	11/21/24	
Surrogate: n-Nonane		86.9 %	50-200	11/21/24	11/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2447090
Chloride	165	20.0	1	11/21/24	11/21/24	•



WPX Energy - Carlsbad Project Name: Brushy Gathering Facility Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Anna Byers 11/22/2024 4:05:05PM

Carlsbad NM, 88220		Project Manager:	Ar	nna Byers				11/2	22/2024 4:05:05PM
	V	olatile Organic	Compor	unds by EF	A 8260I	В		ı	Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2447078-BLK1)							Prepared: 11	1/20/24 Anal	yzed: 11/20/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.461		0.500		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
LCS (2447078-BS1)							Prepared: 11	1/20/24 Anal	yzed: 11/20/24
Benzene	2.54	0.0250	2.50		101	70-130			
Ethylbenzene	2.75	0.0250	2.50		110	70-130			
Toluene	2.73	0.0250	2.50		109	70-130			
p-Xylene	3.11	0.0250	2.50		125	70-130			
o,m-Xylene	6.02	0.0500	5.00		120	70-130			
Total Xylenes	9.13	0.0250	7.50		122	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			
LCS Dup (2447078-BSD1)							Prepared: 11	1/20/24 Anal	yzed: 11/20/24
Benzene	2.55	0.0250	2.50		102	70-130	0.335	23	
Ethylbenzene	2.76	0.0250	2.50		110	70-130	0.163	27	
Foluene	2.67	0.0250	2.50		107	70-130	2.17	24	
o-Xylene	2.91	0.0250	2.50		116	70-130	6.70	27	
o,m-Xylene	5.87	0.0500	5.00		117	70-130	2.41	27	
Total Xylenes	8.79	0.0250	7.50		117	70-130	3.85	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
na rogane. Bromojimorovenizene									

0.500

102

70-130



0.509

Surrogate: Toluene-d8

Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	Reported:
5315 Buena Vista Dr Carlsbad NM, 88220	Project Number: Project Manager:	01058-0007 Anna Byers	11/22/2024 4:05:05PM
Carisbaa 14141, 00220	r roject manager.	Tima By 015	

5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		1058-0007 nna Byers				1	1/22/2024 4:05:05PM
		Volatile O	rganics b	y EPA 802	21B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2447080-BLK1)							Prepared: 11	1/21/24 An	nalyzed: 11/22/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.88		8.00		86.0	70-130			
LCS (2447080-BS1)							Prepared: 11	1/21/24 An	nalyzed: 11/22/24
Benzene	4.60	0.0250	5.00		92.0	70-130			
Ethylbenzene	4.41	0.0250	5.00		88.3	70-130			
Toluene	4.53	0.0250	5.00		90.5	70-130			
o-Xylene	4.43	0.0250	5.00		88.6	70-130			
p,m-Xylene	8.97	0.0500	10.0		89.7	70-130			
Total Xylenes	13.4	0.0250	15.0		89.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.08		8.00		88.5	70-130			
LCS Dup (2447080-BSD1)							Prepared: 1	1/21/24 An	nalyzed: 11/22/24
Benzene	4.81	0.0250	5.00		96.2	70-130	4.52	20	
Ethylbenzene	4.64	0.0250	5.00		92.8	70-130	4.98	20	
Toluene	4.75	0.0250	5.00		95.1	70-130	4.90	20	
o-Xylene	4.65	0.0250	5.00		93.1	70-130	4.96	20	
p,m-Xylene	9.41	0.0500	10.0		94.1	70-130	4.73	20	
Total Xylenes	14.1	0.0250	15.0		93.7	70-130	4.81	20	

70-130



WPX Energy - Carlsbad Project Name: Brushy Gathering Facility Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Anna Byers 11/22/2024 4:05:05PM

Nonhalogenate	ed Organic	s by EPA	8015D -	- GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2447078-BLK1)						Prepared: 1	1/20/24 A	Analyzed: 11/20/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.461		0.500	92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500	97.5	70-130			
Surrogate: Toluene-d8	0.507		0.500	101	70-130			
LCS (2447078-BS2)						Prepared: 1	1/20/24 A	Analyzed: 11/20/24
Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	112	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500	93.5	70-130			
Surrogate: Toluene-d8	0.479		0.500	95.8	70-130			
LCS Dup (2447078-BSD2)						Prepared: 1	1/20/24 A	Analyzed: 11/20/24
Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	108	70-130	3.31	20	
Surrogate: Bromofluorobenzene	0.497		0.500	99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500	96.6	70-130			
Surrogate: Toluene-d8	0.518		0.500	104	70-130			



Surrogate: 1-Chloro-4-fluorobenzene-FID

7.57

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	11/22/2024 4:05:05PM
Carlsbad NM, 88220	Project Manager:	Anna Byers	

5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager		058-0007 nna Byers				11/2	2/2024 4:05:05PM
	Non	halogenated (Organics	by EPA 801	15D - G	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2447080-BLK1)							Prepared: 1	1/21/24 Analy	vzed: 11/22/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			
LCS (2447080-BS2)]	Prepared: 1	1/21/24 Analy	zed: 11/22/24
Gasoline Range Organics (C6-C10)	42.0	20.0	50.0		84.0	70-130			
urrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			
LCS Dup (2447080-BSD2)]	Prepared: 1	1/21/24 Analy	zed: 11/22/24
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.4	70-130	7.41	20	

70-130

WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

Carlsbad NM, 88220		Project Manager	r: Ar	ına Byers				11	/22/2024 4:05:05PM
	Nonha		Analyst: NV						
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2447076-BLK1)							Prepared: 1	1/20/24 Ana	ılyzed: 11/20/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.4		50.0		101	50-200			
LCS (2447076-BS1)							Prepared: 1	1/20/24 Ana	lyzed: 11/20/24
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	55.0		50.0		110	50-200			
LCS Dup (2447076-BSD1)							Prepared: 1	1/20/24 Ana	lyzed: 11/21/24
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132	0.00	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			

WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

Carlsbad NM, 88220		Project Manage	r: Aı	nna Byers				11.	/22/2024 4:05:05PM
	Nonha	logenated Or		Analyst: KH					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2447081-BLK1)							Prepared: 1	1/21/24 Ana	lyzed: 11/21/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.8		50.0		104	50-200			
LCS (2447081-BS1)							Prepared: 1	1/21/24 Ana	lyzed: 11/21/24
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			
LCS Dup (2447081-BSD1)							Prepared: 1	1/21/24 Ana	lyzed: 11/21/24
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132	1.43	20	
Surrogate: n-Nonane	53.4		50.0		107	50-200			

WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Number:	Brushy Gathering Facility 01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/2024 4:05:05PM

		Analyst: DT								
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2447086-BLK1)						F	Prepared: 1	1/21/24 Anal	lyzed: 11/21/24	

					Prepared: 11	/21/24 Analyzed: 11/2	21/24
ND	20.0						
					Prepared: 11	/21/24 Analyzed: 11/2	21/24
253	20.0	250	101	90-110			
					Prepared: 11	/21/24 Analyzed: 11/2	21/24
252	20.0	250	101	90-110	0.308	20	
	253	253 20.0	253 20.0 250	253 20.0 250 101	253 20.0 250 101 90-110	ND 20.0 Prepared: 11 253 20.0 250 101 90-110 Prepared: 11	Prepared: 11/21/24 Analyzed: 11/253 20.0 250 101 90-110 Prepared: 11/21/24 Analyzed: 11/253 Prepared: 11/21/24 Analyzed: 11/253 Prepared: 11/21/24 Analyzed: 11/253 Prepared: 11/25/24 Analyzed: 11/25/24

LCS Dup (2447090-BSD1)

Chloride

257

Prepared: 11/21/24 Analyzed: 11/21/24

20

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		Brushy Gatherin 1058-0007	ng Facility	,			Reported:			
Carlsbad NM, 88220		Project Manager: Anna Byers						11/22/2024 4:05:05PM				
		Anions by EPA 300.0/9056A										
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2447090-BLK1)							Prepared: 1	1/21/24 Aı	nalyzed: 11/21/24			
Chloride	ND	20.0										
LCS (2447090-BS1)							Prepared: 1	1/21/24 Aı	nalyzed: 11/21/24			
Chloride	257	20.0	250		103	90-110						

250

20.0

103

90-110

0.158

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

	WPX Energy - Carlsbad	Project Name:	Brushy Gathering Facility	
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Anna Byers	11/22/24 16:05

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: W	PX Energy	Permian	, LLC.			T	Bill To	·		L	ab Us	e Or	ilv			TAT				T EP		Program	_	
	Brushy Ga			<u> </u>	_	Atte	ention: Jim Raley		lah	WOR			Job		her	ᅥ	10	2D	3D		andard	CWA	SDWA	_
Project N	lanager: A	Inna Bye	rs				ress: 5315 Buena Vista Dr.		F	¥9#	21	5	01058-0007				-			TAT H			-	
	13000 W					City,	, State, Zip: Carlsbad, NM, 88220	·	_						nd Met								RCRA	_
City, Stat	e, Zip_Od	essa,TX,	79765				ne: 575-885-7502									7			ГП					_
Phone: 4	32-305-64	115			\neg	Ema	il: jim.raley@dvn.com		1	2108		l			1	ŀ						State		-
Email: De	von-team	@eteche	env.com			WBS		ā					l	- 1		l			NM CO		TXT	_		
						_	dent ID: nAB1805133508		1	8	1	ł				ı								_
Collected by: Edyte Konan											8021	3260	010	88 000			ž		¥					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample (C)			Lab Number	Depth(ft.)	три ско/око/око Бу	BTEX by 8023	VOC by 8260	Metals 6010	Chloride 300			всрос		GDOC			Remark	s	
10:30	11.19.24	S	1				BH01	1	0.5'								x							_
10:40	11.19.24	S	1				BH01	2	1'								×							
10:50	11.19.24	S	1				BH01	3	2'								×							
11:00	11.19.24	S	1				BH02	4	0.5'								×							
11:10	11.19.24	S	1				BH02	5	1'								×							_
11:20	11.19.24	S	1				BH02	6	2'								×							
11:30	11.19.24	S	1				ВН03	7	0.5'								x	Ì						_
11:40	11.19.24	S	1				ВН03	8	1'								x			\Box				_
11:50	11.19.24	S	1				вн03	9	2'								x							
12:00	11.19.24	s	1				вн04	Ø	0.5'								x							
Addition	al Instruc	tions:																						
date or time	of collection	is considere		ticity of this si may be groun			that tampering with or intentionally mislabeli Sampled by: GM	ing the sampl	e locati	ion,											on ice the day i subsequent de		pled or receive	ā
Relinquish	d by: (Sign	ture)	Date	20/24	Time [[:10		Received by: (Signature) MICHELLE GONZALES	Date 11 -2 0-			1110		Rec	elvec	on ic	: :	V.	ab U:	se Or	ily				
Relinquishe MICH	ed by: (Signa Lelle Gl	iture) ONZALE	Date 11	- 1-20-24	164	5	Received by: (Signature) Received by: (Signature)	Date 11-21-2	14	Time 8	:15	5	n				ر <u>12</u>				T3			
Relinquishe	ed by: (Signa	iture)	Date		Time	Date		Time			AVG Temp °C4													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Othe								Туре	: g - g	lass,	p - pc	oly/pl	astic,	ag - an	ber	glas	s, v -	VOA					-	
Note: Samp	les are disc	arded 30 d	ays after re				er arrangements are made. Hazardous	samples will	be re	turne	d to ci	lent o	r disp	osed	of at the	cile	nt ex	pense	. The	repo	rt for the an	alysis of t	he above	_
							ab able COC. The liability of the laborates				1	44												



envirotech

Project Information

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Client: W	PX Energy	Pormian	110				Bill To		1		- 1	ab 11		No.					T/	\T		EDA D	rogram
Project:	Brushy Ga	horing F	ocility			Atton	tion: Jim Raley		1-4	14104		_					EPA Program andard CWA SDWA		SDWA				
	Manager: A						ess: 5315 Buena Vista Dr.		받	WO#	214		200	₹\$.	∞	7	10	-	130		4H TAT	CITA	30112
Address	13000 W	County R	d 100		 		State, Zip: Carlsbad, NM, 8822	0	₩-	Ш	۷.				nd Me			<u> </u>			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		RCRA
	e, Zip_Od			·			e: 575-885-7502	<u> </u>	╁╌	Γ		_	T	1				г –					
Phone: 4	32-305-64	115				}	: jim.raley@dvn.com		ł	Si		1									 -	State	1
	evon-team		env.com		\dashv		WO: 21138029		1	ã l		1		1							NMI CO		TXT
					_		ent ID: nAB1805133508		1	8	l	ł	l				i						
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Collecte	by: Edyte	Konan		_					<u>_</u>	QQ.	8	826	9	8					卢				<u> </u>
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID)			Lab Number	Depth(ft.)	ТРН GRO/DRO/ORO by 8015	8TEX by 8021	voc by 8260	Metals 6010	Chloride 300.0			96DOC		ggo			Remarks	
13:50	11.19.24	S	1				ВН07	21	2'								x						
14:00	11.19.24	S	1				вно8	22	0.5								x						
14:10	11.19.24	S	1				вно8	23	1'								X						
14:20	11.19.24	S	1			вно8			2'								x						
14:30	11.19.24	S	1		вно9			25	0.5								x						
14:40	11.19.24	S	1		вно9			20	1'								x						
14:50	11.19.24	S	1				вн09	27	2'								x						
					-112	20/202	.h																_
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Addition	al Instruc	tions:																					
	pler), attest to e of collection						at tampering with or intentionally mislab Sampled by: GM	elling the sampl	e locat	ion,											on ice the day i subsequent da		ed or received
	ed by: (Signa		Date	20/24	Time [[:10	,	Received by: (Signature) Michelle, Gonzale, (Date 11-20-	24	Time	10		Lab Use Only Received on ice: N										
Relinquished by: (Signature) , Date Time			Time 164	15	referred by: Gignatufflaro	Signatural Page Date				•	71							<u>T3</u>					
	ed by: (Signa		Date		Time	F	Received by: (Signature) Date			Time			AVG Temp °C										
Sample Mat	rbi: S - Soll, Sd	- Solid, Se -	Studge, A - A	queous, O - C	Other			Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Sam	ples are disc	arded 30 da	ays after re	sults are rep	orted uni		arrangements are made. Hazardou this COC. The liability of the laborate	s samples wil	be re	turnec	l to cl	lent o	r disp	osed c	of at th					repor	t for the an	alysis of th	e above



envirotech Inc.

Printed: 11/21/2024 9:31:26AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/21/24 0	08:15	Work Order ID:	E411215
Phone:	(575) 200-6754	Date Logged In:	11/20/24 1	2:13	Logged In By:	Noe Soto
Email:	anna@etechenv.com	Due Date:	11/21/24	17:00 (0 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	e number of samples per sampling site location ma	tch the COC	Yes			
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Comment</u>	s/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C	•		-			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers'	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lat	· · ·	nois concerca.	105			
	field sample labels filled out with the minimum info	ormation:				
	ample ID?	ormation.	Yes			
	ate/Time Collected?		Yes			
C	ollectors name?		No			
Sample P	reservation_					
21. Does	the COC or field labels indicate the samples were pr	reserved?	No			
22. Are sa	imple(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multipha	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
	imples required to get sent to a subcontract laborato	rv ⁹	No			
	subcontract laboratory specified by the client and it	-	NA	Subcontract Lab: NA		
				Subcontract Euo, 1411		
Chent II	<u>istruction</u>					

Date

Signature of client authorizing changes to the COC or sample disposition.

APPENDIX G

Correspondence & Notifications



Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 403466

QUESTIONS

Operator:	OGRID:			
WPX Energy Permian, LLC	246289			
Devon Energy - Regulatory	Action Number:			
Oklahoma City, OK 73102	403466			
	Action Type:			
	[NOTIFY] Notification Of Sampling (C-141N)			

QUESTIONS

Prerequisites						
Incident ID (n#)	nAB1805133508					
Incident Name	NAB1805133508 BRUSHY GATHERING FACILITY @ 0					
Incident Type	Produced Water Release					
Incident Status	Remediation Plan Approved					
Incident Facility	[fAB1805133323] Brushy Gathering Facility					

Location of Release Source							
Site Name	Brushy Gathering Facility						
Date Release Discovered	02/05/2016						
Surface Owner	Federal						

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,129
What is the estimated number of samples that will be gathered	24
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/19/2024
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of State Line Rd and Longhorn Rd/Whitehorn Rd head west for 1.5 mi to reach the GPS Coordinate (32.0056312, -103.9439056) for the Brushy Gathering Facility ROW.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 403466

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	403466
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

C B		Condition	Condition Date
j	raley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/14/2024

Erick Herrera

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Sent: Friday, August 2, 2024 9:47 AM

To: Raley, Jim
Cc: Devon-Team

Subject: RE: [EXTERNAL] BLM Contact

Jim,

Thank you for the clarification.

Thank you,

Brittany Hall • Environmental Specialist

Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | <u>Brittany.Hall@emnrd.nm.gov</u>
http://www.emnrd.nm.gov/ocd/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Raley, Jim <Jim.Raley@dvn.com> Sent: Friday, August 2, 2024 8:39 AM

To: Hall, Brittany, EMNRD < Brittany. Hall@emnrd.nm.gov>

Cc: Devon-Team < Devon-Team@etechenv.com >

Subject: RE: [EXTERNAL] BLM Contact

Brittany,

The reason we did not include incident nAB1805133508 in the report is sits off by itself down the roadway a bit from the facility. The other incidents all overlap each other and should be considered together. Incident nAB1805133508 was a very small spill which we think we can just dig up and close out when we have equipment available to complete the proposed work for the other incidents.

We do plan on closing all incidents out for Brushy Gathering Facility (fAB1805133323) at the same time.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Hall, Brittany, EMNRD < Brittany. Hall@emnrd.nm.gov >

Sent: Thursday, August 1, 2024 2:39 PM **To:** Raley, Jim < <u>Jim.Raley@dvn.com</u>>

Cc: Devon-Team < Devon-Team@etechenv.com >

Subject: RE: [EXTERNAL] BLM Contact

Jim.

Thank you for responding so quickly. I pulled up the facility ID for the Brushy Gathering Facility (fAB1805133323) and found an additional incident number that is not included in the remediation plans that were submitted.

nAB1805133508 is not included on the cover page of the Remediation Work Plan Addendum that were submitted for nAB1501655607, nAB1504054780, nAB1522341642, nAB1621453181, nAB1633639499, and nAPP2230032326.

Thank you,

Brittany Hall • Environmental Specialist

Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | <u>Brittany.Hall@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Raley, Jim < <u>Jim.Raley@dvn.com</u>>
Sent: Thursday, August 1, 2024 8:02 AM

To: Hall, Brittany, EMNRD < Brittany. Hall@emnrd.nm.gov >

Cc: Devon-Team < Devon-Team@etechenv.com >

Subject: RE: [EXTERNAL] BLM Contact

Brittany,

We also worked with Dave Decker with Southwest Geophysical when we encountered a karst feature. He directly communicated with the BLM on that issue. If you need his contact let me know.

I was not really sure what you were referring too as far as contact with the BLM.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Raley, Jim

Sent: Thursday, August 1, 2024 7:18 AM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Cc: Devon-Team < Devon-Team@etechenv.com >

Subject: RE: [EXTERNAL] BLM Contact

Brittany,

I worked with Crisha Morgan to gain access to areas off-site. Contact information below.

Crisha A. Morgan | Certified - Environmental Protection Specialist | Program Officer | COR | Spills Coordinator | Orphaned Well POC Lead Bureau of Land Management | Carlsbad Field Office 620 E. Greene Street Carlsbad, NM 88220 Cell 575-200-8648 | Office 575-234-5987 | camorgan@blm.gov

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Hall, Brittany, EMNRD < Brittany.Hall@emnrd.nm.gov>

Sent: Wednesday, July 31, 2024 2:15 PM **To:** Raley, Jim < <u>Jim.Raley@dvn.com</u>> **Subject:** [EXTERNAL] BLM Contact

Hi Jim,

Can you please provide the contact information for the person at the BLM you are working with regarding nAB1501655607, nAB1504054780, nAB1522341642, nAB1621453181, nAB1633639499, and nAPP2230032326?

Thank you,

Brittany Hall ● Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | Brittany.Hall@emnrd.nm.gov http://www.emnrd.nm.gov/ocd/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-forms/. or https://www.emnrd.nm.gov/ocd/ocd-forms/.

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

APPENDIX H

Archived Reports





SITE CHARACTERIZATION AND REMEDIATION PLAN

Prepared For:

WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220

Site Information:

Brushy Gathering Facility Incident Number nAB1805133508

Unit M, Section 25, Township 26 South, Range 29 East

Eddy County, New Mexico

(32.00576, -103.94400)

Carlsbad ● Houston ● Midland ● San Antonio ● Lubbock ● Hobbs ● Lafayette



SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Site Characterization and Remediation Plan (SCRP) detailing site assessment and delineation soil sampling activities associated with inadvertent release of produced water at the Brushy Gathering Facility (Site). Based on laboratory analytical results from soil sampling activities at the Site, WPX proposes this RWP, which summarizes initial response efforts and details remediation objectives to rectify environmental impacts.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit M, Section 25, Township 26 South, Range 29 East, in Eddy County, New Mexico (32.00576°, -103.94400°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1** in **Appendix A**).

On February 5, 2018, it was discovered that an above ground poly line failure resulted in approximately 10 barrels (bbls) of produced water to be released onto a Right-Of-Way (ROW). Vacuum trucks were immediately dispatched and recovered approximately 7 bbls of standing fluids and additional fluids from draining the compromised poly line, which was subsequently removed. WPX reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on February 19, 2018, and was assigned Incident Number nAB1805133508. The observed extent of the release is presented as the Area of Concern (AOC) on **Figure 2** in **Appendix A**. It should be noted that the release was reported on the Form C-141 to have occurred in 2016, however, this was an inadvertent mistake and email correspondence documents the correct year of the release occurrence as denoted above.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- · An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based on a recent measurement of a nearby well at the JC Williams Yard, approximately 0.65 miles northwest of the Site. The well does not appear to have an identification number corresponding to the New Mexico Office of the State Engineer (NMOSE) or United States Geological Survey (USGS) well records. However, a depth to groundwater measurement at the well was obtained on



August 15, 2022, and measured 82.9 feet bgs. The Groundwater Measurement Form summarizing depth to groundwater data is provided as **Appendix B**. The location of the JC Williams well and additional regional groundwater well locations are shown in **Figure 1A** in **Appendix A**.

Based on the desktop review, the current BLM Carlsbad Field Office (CFO) karst cave potential map indicates the Site is located in a high potential karst area, and the National Wetlands Inventory indicates the Site intersects a wetland riverine. All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used for the Site characterization are included in **Figure 1B** and **Figure 1C** in **Appendix A**.

Based on the results from the desktop review, specifically the designated karst potential at the Site and the proximity to a wetland feature, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [†]
Chloride	Environmental Protection Agency (EPA) 300.0	600 milligram per kilogram (mg/kg)
TPH (Total Petroleum Hydrocarbon)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B or EPA 8260B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B or EPA 8260B	50 mg/kg

[†]The reclamation standard concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

DELINEATION SOIL SAMPLING ACTIVITIES

On September 8, 2022, a third-party environmental contractor conducted delineation activities to confirm details of the release provided on the Form C-141 and to characterize the AOC by verifying the presence or absence of impacted soil. Six delineation boreholes (BH01 through BH06) were advanced via hand auger to assess the lateral and vertical extents of the AOC. Delineation activities were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of two samples were collected from each delineation soil sampling location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions are included on soil sampling logs shown in **Appendix C**. The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix D**.

The delineation soil samples were placed directly into lab provided pre-cleaned jars, packed with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of COCs.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of COCs for all delineation soil samples were below the applicable Site Closure Criteria, except soil samples collected from BH02. Laboratory analytical results for BH02 indicated chloride concentrations exceeded the applicable Site Closure Criteria up to 1-foot bgs. Laboratory analytical results are summarized in Table 1 in **Attachment E**, and the complete laboratory reports with chain-of-custody documentation is included in **Attachment F**.



PROPOSED REMEDIATION WORK PLAN AND SCHEDULE

Based on the delineation soil sampling results, the following conclusions regarding the release are presented:

Identified chloride impacts, characterized by concentrations ranging from 604 mg/kg to 3,560 mg/kg, exist within the top 1-foot of the AOC in the vicinity of BH02 sampling location. Laboratory analytical results for COC concentrations for the remaining delineation soil samples are below the applicable Site Closure Criteria.

Based on the conclusions drawn above, WPX proposes the following remedial corrective actions:

- Removal of impacted soil indicated by elevated chloride concentrations above the applicable Site Closure Criteria. The excavation will be advanced vertically and laterally until the applicable Site Closure Criteria is met. Sidewall soil samples will provide horizontal delineation of the release. Based on current delineation soil sampling results, an estimated 11 CYs of additional soil is anticipated to be removed from the Site in accordance with state and federal regulations.
- Following removal of soil impacts, 5-point composite confirmation soil samples will be collected from the excavation and analyzed by an accredited laboratory in accordance to NMAC 19.15.29.12.D. Excavated soil will then be transferred to an approved landfill facility for disposal.
 - (1) If the excavation area is smaller than the AOC and laboratory analytical results of floor and sidewall excavation confirmation soil samples are compliant with the Site Closure Criteria, additional confirmation soil samples will be collected from the remaining surface area of the AOC. Soil samples will be collected and analyzed as previously described.
- Upon receipt of soil confirmation results indicating impacted soil has been removed, the excavation will be backfilled with clean, locally sourced soil and restored to "as close to its original state" as possible.

PROPOSED TIMELINE

The tank battery storage facility associated with the Site, recently acquired by WaterBridge Operating, LLC. (WaterBridge), is scheduled to be decommissioned in the near future. As such, WPX requests to begin remediation activities concurrently with the proposed work associated with Incident Numbers nAB1501655607, nAB1504154780, nAB1522341642, nAB1621453181, nAB1633639499, nAPP2230032326, located due west of the Site, in accordance with the Site decommissioning schedule.

LIMITATIONS

Etech has prepared this SCRP to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

Based on the proposed scope of work, WPX believes the proposed remedial actions will meet the requirements set forth in NMAC 19.15.29.13 regulations to be protective of human health, the environment and groundwater. If you have any questions or comments, please do not hesitate to contact



Joseph Hernandez at (432) 305-6413 or <u>joseph@etechenv.com</u> or Anna Byers at (432) 305-6415 or <u>anna@etechenv.com</u>. Email correspondence regarding the Site is included in **Appendix G**.

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

Anna Byers Senior Geologist

cc: Jim Raley, WPX

New Mexico Oil Conservation Division

Bureau of Land Management

Joseph S. Hernandez Senior Managing Geologist

Appendices:

Appendix A Figure 1: Site Map

Figure 1A: Site Characterization Map - Groundwater

Figure 1B: Site Characterization Map – Surficial Receptors

Figure 1C: Site Characterization Map – Karst Potential

Figure 2: Delineation Soil Sample Locations

Appendix B Referenced Well Record

Appendix C Soil Sampling Logs

Appendix D Photographic Log

Appendix E Tables

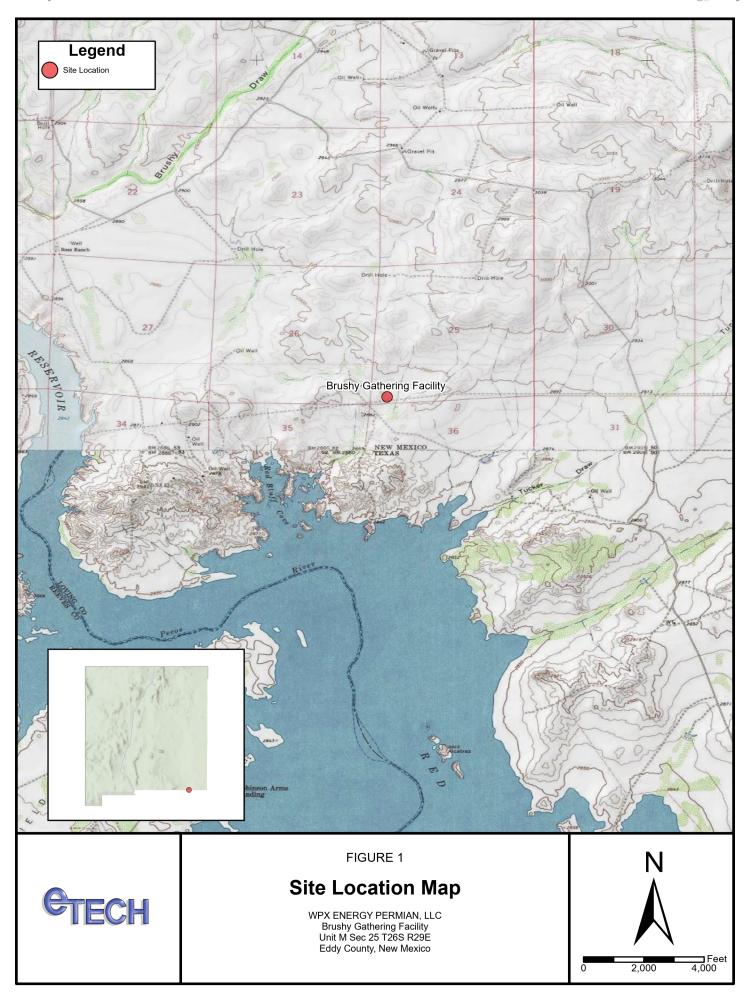
Appendix F Laboratory Analytical Reports & Chain-of-Custody Documentation

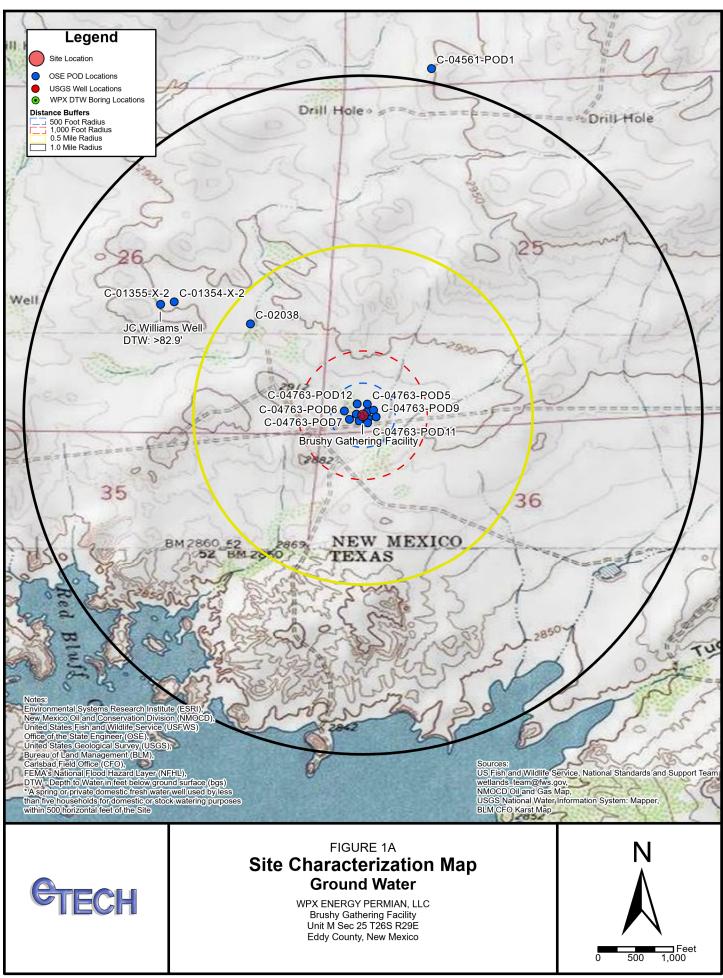
Appendix G Correspondence & Notifications

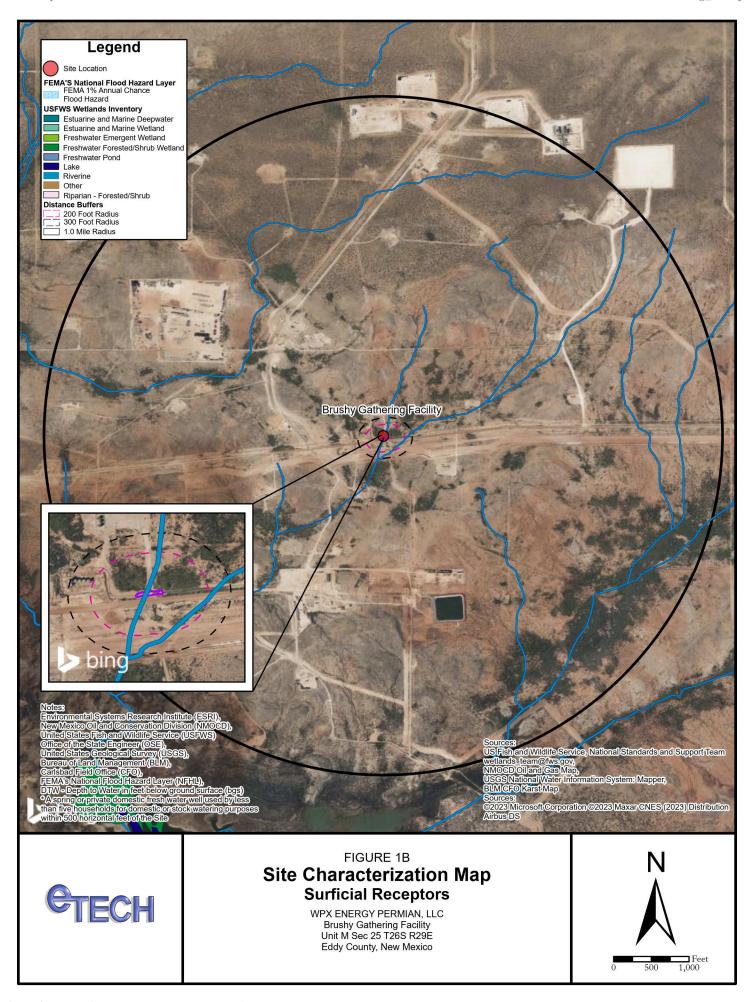
APPENDIX A

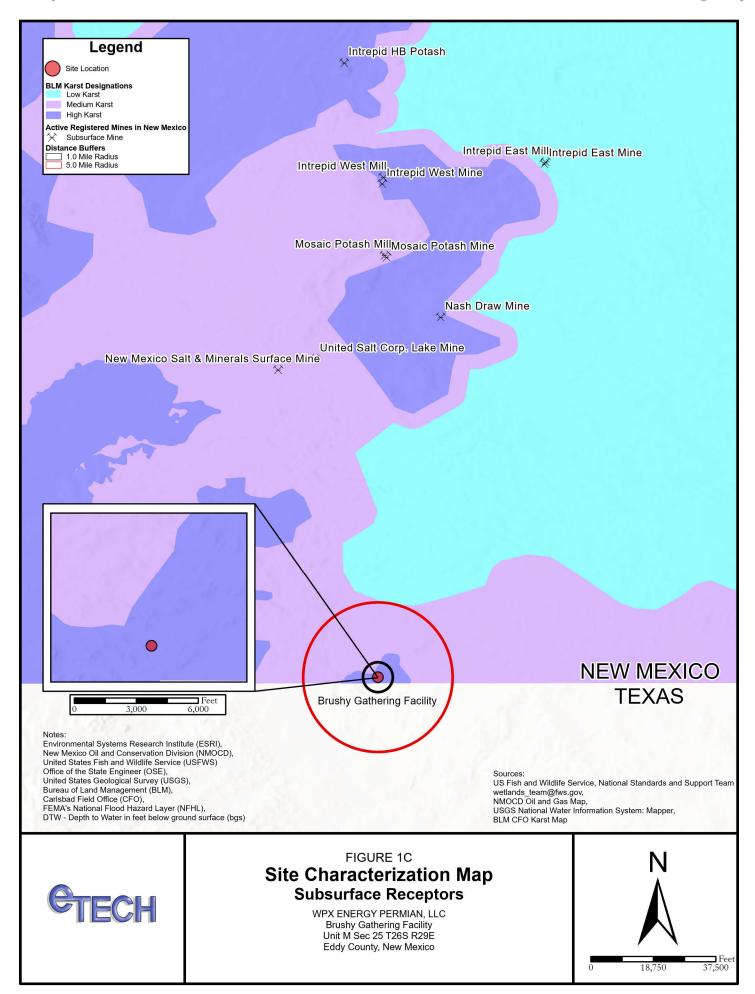
Figures











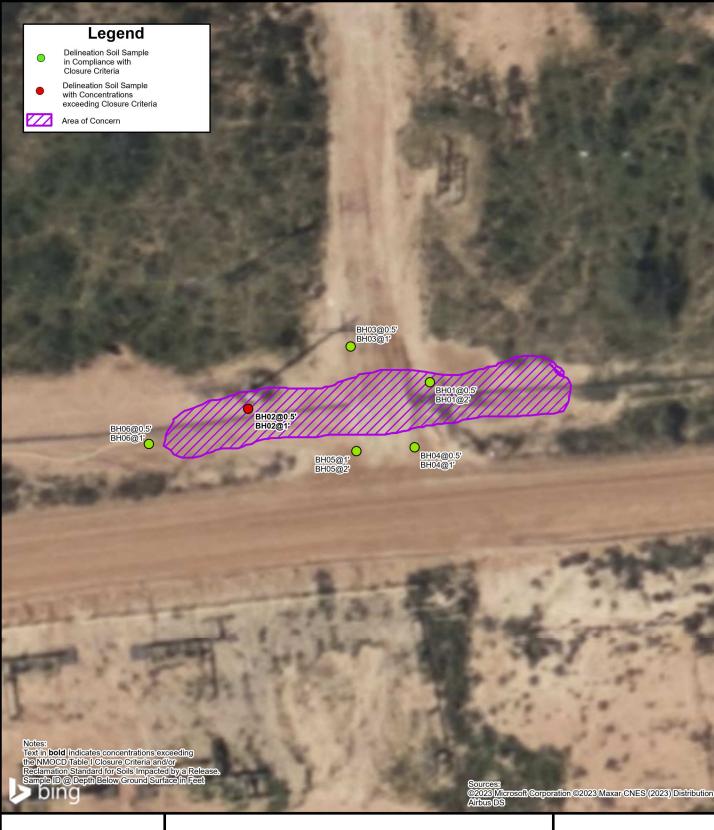
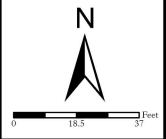




FIGURE 2

Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC Brushy Gathering Facility Unit M Sec 25 T26S R29E Eddy County, New Mexico



APPENDIX B

Referenced Well Records

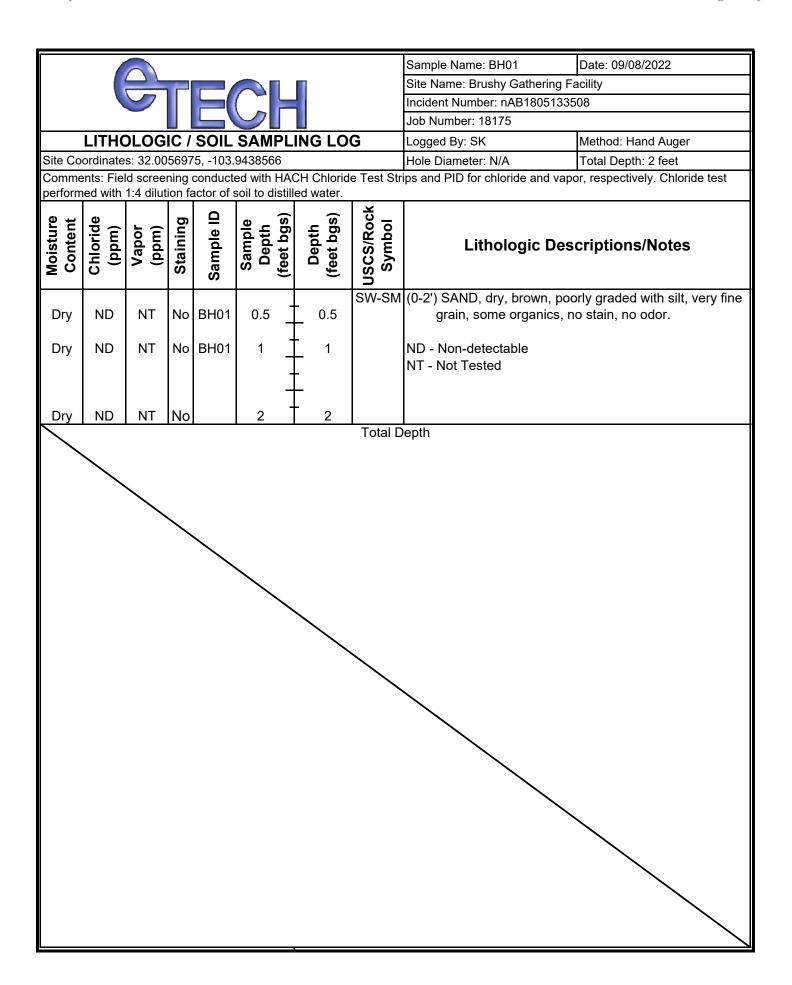


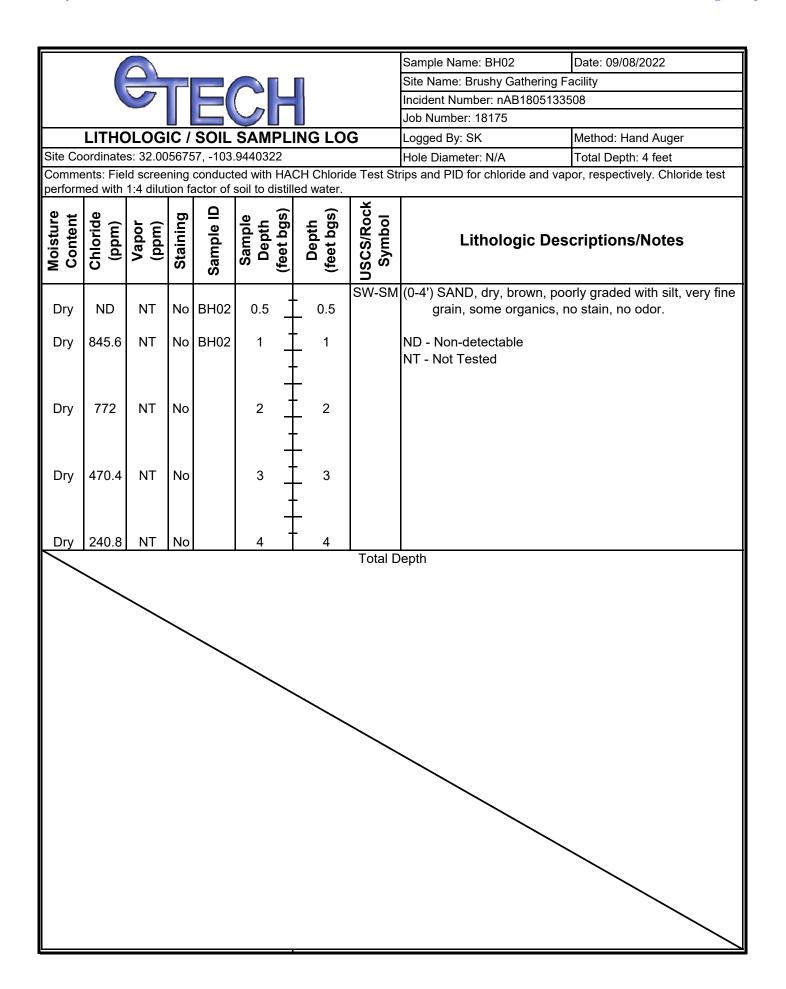
SAMPLING INFORMATION Solid Borring / Monitor Well Number - NA Project II. Q3A 1987013 Type of Water Custing Meter Troub Depth of Monitor Well NA Sorsen Interval: NA Other Notes Used deconfaminated water level indicator meter to measure groundwater depth in existing well Other Notes Used deconfaminated water level indicator meter to measure groundwater depth in existing well Tubing Placement QW Depth (static) After Purge Time Purge Rate Temp. PH DO ORP Cond. GW Depth Gentlement NA NR NR NR NR NR NR NR	Devon Energy Name: JC Williams Well GW measurement Location: 32.0105289,-103.9534960 Manager: Joseph Hernandez	GROUNDWATER SAMPLING FORM					
NA = Not Available	epth of Monitor Well: NA Interval: NA	Project #: 03A1987013 Type of Water Quality Meter: Date Calibrated NA					
NA = Not Available	Tubing Placement GW Deoth (static) After Purgi						
		NR NR NR NR NR NR 82.9 NR = Not Recorded					

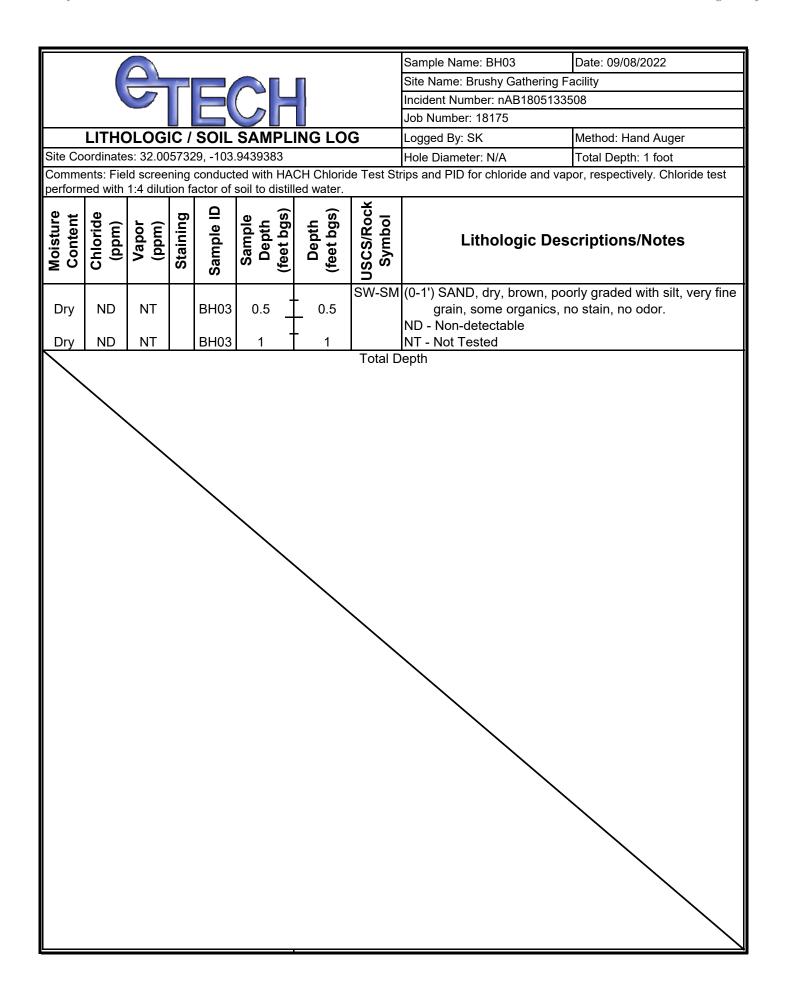
APPENDIX C

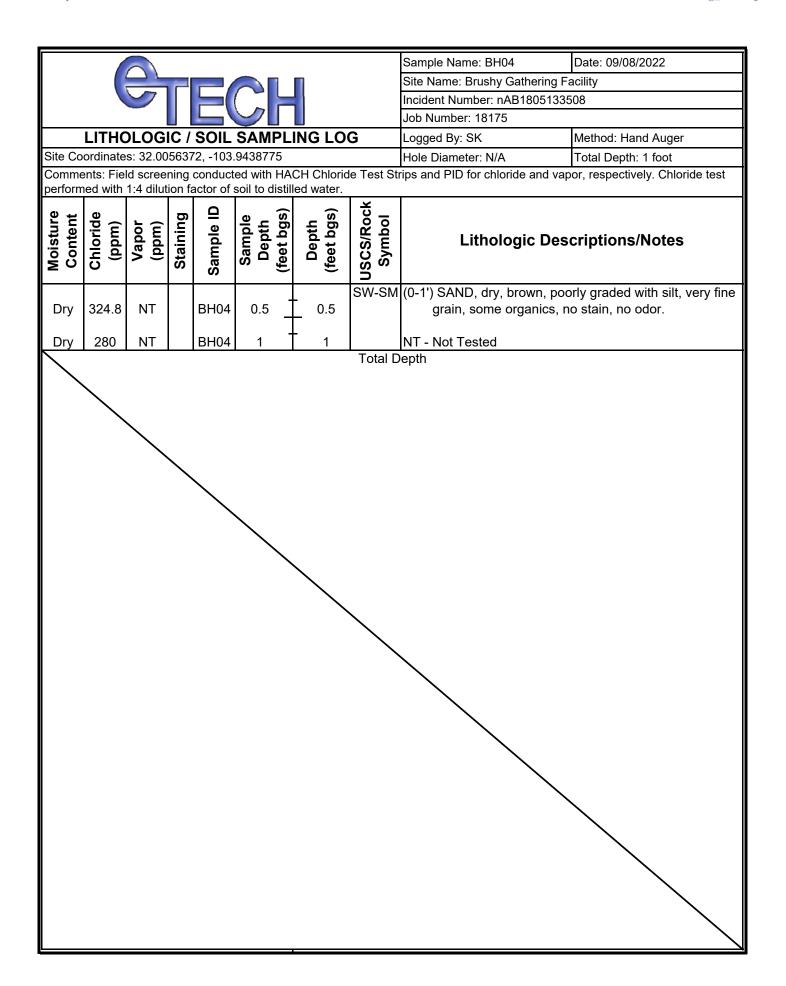
Soil Sampling Logs

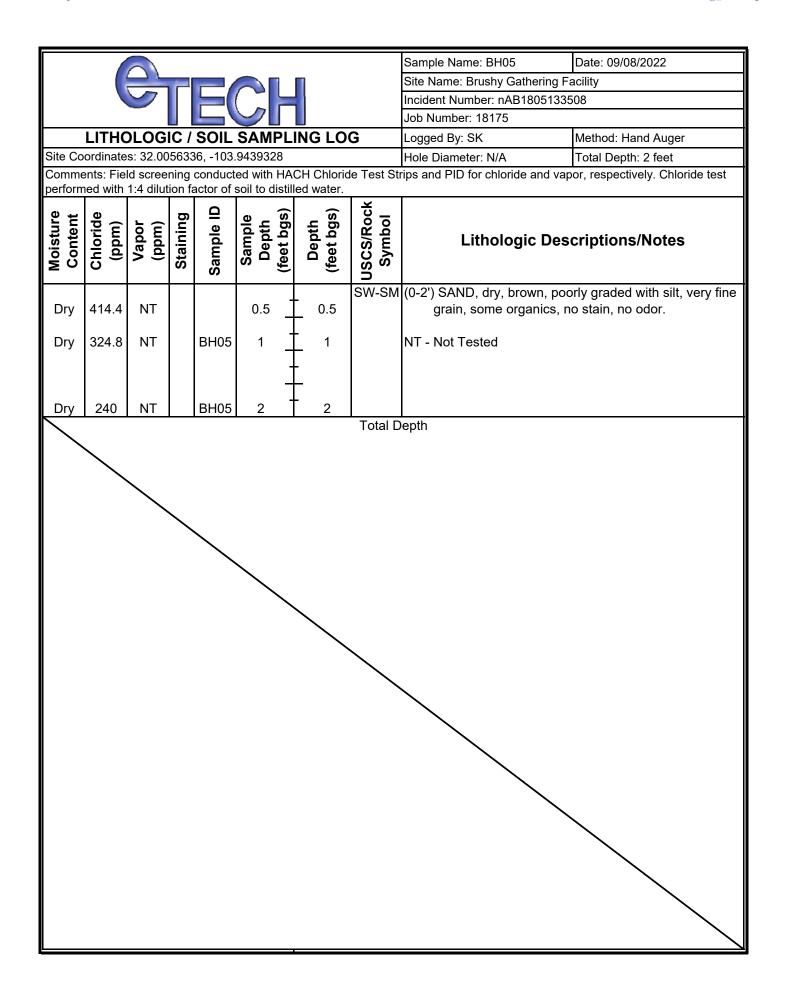


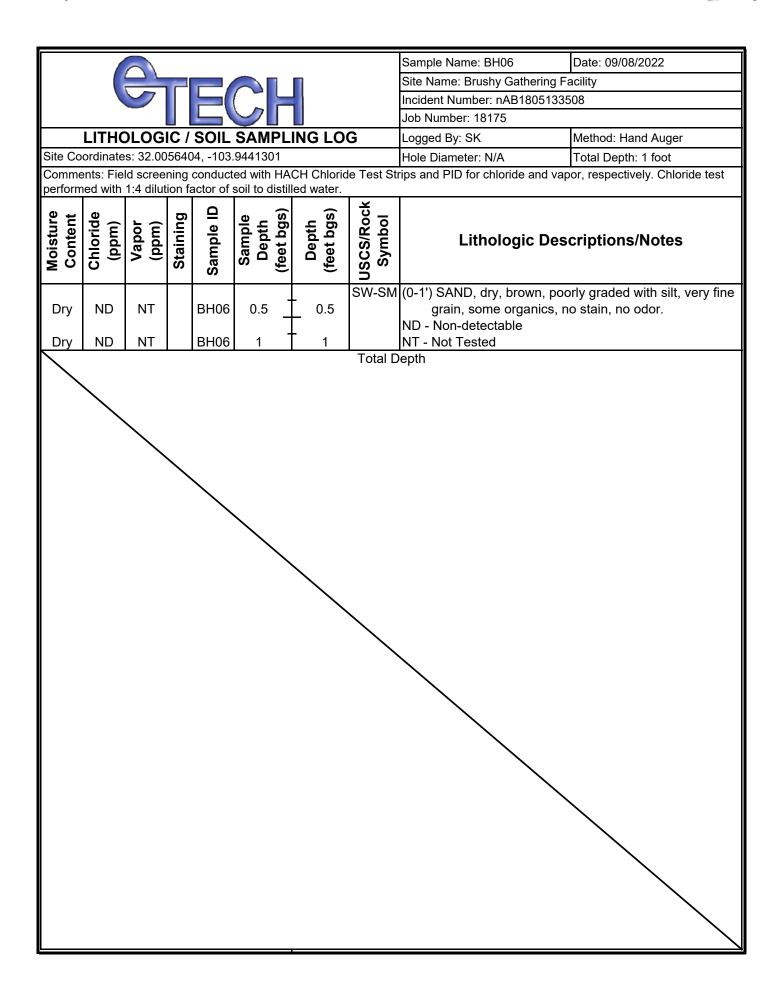












APPENDIX D

Photographic Log





PHOTOGRAPHIC LOG

WPX Energy Permian, LLC Brushy Gathering Facility Incident Number nAB1805133508



Photograph 1 Date: 09/08/2022

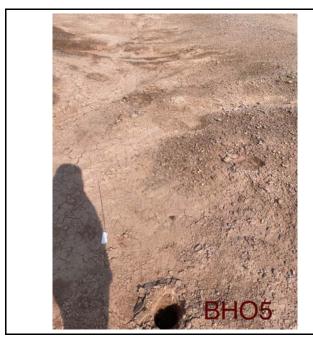
Description: Western view of delineation activities near BH04.

Photograph 2 Date: 09/08/2022

Description: View of delineation activities near

BH01.





Photograph 3 Date: 09/08/2022 Description: Eastern view of delineation activities near BH02.

Photograph 4 Date: 09/08/2022

Description: View of delineation activities near
BH05.

APPENDIX E

Tables





Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Brushy Gathering Facility 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)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closur Release (NMAC 19.15.2		ls Impacted by a	10	50	NE	NE	NE	100	600
			De	elineation Soil Samples	- Incident Number nA	B1805133508			
BH01	09/08/2022	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	20.4
BH01	09/08/2022	2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	11.5
BH02	09/08/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	3,560
BH02	09/08/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	604
BH03	09/08/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	9.36
BH03	09/08/2022	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	12.2
BH04	09/08/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	370
BH04	09/08/2022	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	420
BH05	09/08/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	344
BH05	09/08/2022	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	381
BH06	09/08/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	69.0
BH06	09/08/2022	1	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	17.0

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in ""grey"" represents excavated soil samples

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

[†] The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation



eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2927-1

Laboratory Sample Delivery Group: 03A1987009

Client Project/Site: UCBH WW ROW BOOSTER STATION

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Devon Team

RAMER

Authorized for release by: 9/21/2022 2:04:47 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

EOL **Have a Question?**

····· Links ······

Review your project results through

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 11/25/2024 11:37:20/AM

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

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

Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION Laboratory Job ID: 890-2927-1 SDG: 03A1987009

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Definitions/Glossary

Job ID: 890-2927-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

Qualifiers

GC VOA

Qualifier **Qualifier Description** LCS and/or LCSD is outside acceptance limits, high biased.

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor**

DL, RA, RE, IN

DL

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

Decision Level Concentration (Radiochemistry) DLC

Detection Limit (DoD/DOE)

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

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

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**

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

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) TFO

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2927-1

SDG: 03A1987009

Job ID: 890-2927-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2927-1

Receipt

The samples were received on 9/9/2022 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

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. (LCS 880-34854/1-A)

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-34854/1-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.

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-34396/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34396 and analytical batch 880-34334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Eurofins Carlsbad 9/21/2022

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-2927-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Client Sample ID: BH01 Lab Sample ID: 890-2927-1 Date Collected: 09/08/22 10:30 Date Received: 09/09/22 15:05

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/19/22 14:55	09/20/22 16:54	
Toluene	<0.00201	U	0.00201		mg/Kg		09/19/22 14:55	09/20/22 16:54	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/19/22 14:55	09/20/22 16:54	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/19/22 14:55	09/20/22 16:54	
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/19/22 14:55	09/20/22 16:54	•
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		09/19/22 14:55	09/20/22 16:54	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	112		70 - 130				09/19/22 14:55	09/20/22 16:54	
1,4-Difluorobenzene (Surr)	89		70 - 130				09/19/22 14:55	09/20/22 16:54	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/21/22 09:38	
Analyte Total TPH	<49.8	U	49.8		mg/Kg		Prepared	Analyzed 09/14/22 09:34	
Total TPH	<49.8	U	49.8		mg/Kg			09/14/22 09:34	•
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/13/22 11:41	09/14/22 03:56	•
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		09/13/22 11:41	09/14/22 03:56	
C10-C28) OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 11:41	09/14/22 03:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	102		70 - 130				09/13/22 11:41	09/14/22 03:56	
o-Terphenyl	104		70 - 130				09/13/22 11:41	09/14/22 03:56	
•									
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chro Analyte	0 . ,	Soluble Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH01 Lab Sample ID: 890-2927-2

Date Collected: 09/08/22 10:45 Date Received: 09/09/22 15:05

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/19/22 14:55	09/20/22 17:14	1
Toluene	0.00207		0.00202		mg/Kg		09/19/22 14:55	09/20/22 17:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/19/22 14:55	09/20/22 17:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/19/22 14:55	09/20/22 17:14	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		09/19/22 14:55	09/20/22 17:14	1
Xylenes, Total	<0.00404	U *+	0.00404		mg/Kg		09/19/22 14:55	09/20/22 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/19/22 14:55	09/20/22 17:14	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2927-2

09/15/22 13:31

Client Sample Results

Client: Ensolum Job ID: 890-2927-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Client Sample ID: BH01

Date Collected: 09/08/22 10:45 Date Received: 09/09/22 15:05

Chloride

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130				09/19/22 14:55	09/20/22 17:14	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/21/22 09:38	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/14/22 09:34	1
Method: 8015B NM - Diesel Rang	ge Organics (DI	RO) (GC)							
Method: 8015B NM - Diesel Ranç Analyte		RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 09/13/22 11:41	Analyzed 09/14/22 04:18	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>	<u>.</u>		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	09/13/22 11:41	09/14/22 04:18	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9	Qualifier U U U	49.9	MDL	mg/Kg	<u>D</u>	09/13/22 11:41	09/14/22 04:18 09/14/22 04:18	1
Analyte Gasoline Range Organics	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41	09/14/22 04:18 09/14/22 04:18 09/14/22 04:18	1

5.04

11.5

mg/Kg

Surrogate Summary

Client: Ensolum Job ID: 890-2927-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19366-A-1-A MS	Matrix Spike	111	102	
880-19366-A-1-B MSD	Matrix Spike Duplicate	127	95	
890-2927-1	BH01	112	89	
890-2927-2	BH01	101	104	
LCS 880-34854/1-A	Lab Control Sample	149 S1+	99	
LCSD 880-34854/2-A	Lab Control Sample Dup	118	90	
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 Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-19130-A-8-B MS	Matrix Spike	97	86
880-19130-A-8-C MSD	Matrix Spike Duplicate	95	83
890-2927-1	BH01	102	104
890-2927-2	BH01	122	122
LCS 880-34396/2-A	Lab Control Sample	133 S1+	133 S1+
LCSD 880-34396/3-A	Lab Control Sample Dup	130	128
MB 880-34396/1-A	Method Blank	105	110

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum

Job ID: 890-2927-1

SDG: 03A1987009

Method: 8021B - Volatile Organic Compounds (GC)

Project/Site: UCBH WW ROW BOOSTER STATION

Lab Sample ID: MB 880-34854/5-A

Lab Sample ID: LCS 880-34854/1-A

Analysis Batch: 34891

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34854

	IND	IIID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:55	09/20/22 10:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:55	09/20/22 10:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:55	09/20/22 10:44	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

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/19/22 14:5	09/20/22 10:44	1
1,4-Difluorobenzene (Surr)	91		70 - 130	09/19/22 14:5	5 09/20/22 10:44	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34854

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09097 mg/Kg 91 70 - 130 Toluene 0.100 0.09371 mg/Kg 94 70 - 130 0.100 Ethylbenzene 0.1136 mg/Kg 114 70 - 130 0.200 0.2523 126 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1444 *+ 70 - 130 o-Xylene mg/Kg 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-34854/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Matrix: Solid

Analysis Batch: 34891

Analysis Batch: 34891

Prep Type: Total/NA Prep Batch: 34854

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07718		mg/Kg		77	70 - 130	16	35	
Toluene	0.100	0.08630		mg/Kg		86	70 - 130	8	35	
Ethylbenzene	0.100	0.1069		mg/Kg		107	70 - 130	6	35	
m-Xylene & p-Xylene	0.200	0.2066		mg/Kg		103	70 - 130	20	35	
o-Xylene	0.100	0.1153		mg/Kg		115	70 - 130	22	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	90	70 - 130

Lab Sample ID: 880-19366-A-1-A MS

Matrix: Solid

Analysis Batch: 34891

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

Prep Batch: 34854

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1	0.0998	0.06213	F1	mg/Kg		61	70 - 130	
Toluene	0.0234	F1	0.0998	0.07378	F1	mg/Kg		50	70 - 130	

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Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2927-1 SDG: 03A1987009

Prep Batch: 34854

Client Sample ID: Matrix Spike Duplicate

70 - 130

70 - 130

70 - 130

40

39

43

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

Lab Sample ID: 880-19366-A-1-A MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 34891

Added	Deculé					
	Result	Qualifier	Unit	D	%Rec	Limits
0.0998	0.06507	F1	mg/Kg		42	70 - 130
0.200	0.1410	F1	mg/Kg		43	70 - 130
0.0998	0.08285	F1	mg/Kg		53	70 - 130
	0.200	0.200 0.1410	0.200 0.1410 F1	0.200 0.1410 F1 mg/Kg	0.200 0.1410 F1 mg/Kg	0.200 0.1410 F1 mg/Kg 43

Limits

MS MS Surrogate %Recovery Qualifier

70 - 130 4-Bromofluorobenzene (Surr) 111 1,4-Difluorobenzene (Surr) 102 70 - 130

Lab Sample ID: 880-19366-A-1-B MSD

Matrix: Solid

Matrix: Solid Analysis Batch: 34891									•	Гуре: To Batch:	
•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U F1	0.100	0.05480	F1	mg/Kg		53	70 - 130	13	35
Toluene	0.0234	F1	0.100	0.06882	F1	mg/Kg		45	70 - 130	7	35

0.06318 F1

0.1334 F1

0.07350 F1

mg/Kg

mg/Kg

mg/Kg

0.100

0.200

0.100 o-Xylene 0.0303 *+ F1 MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 127

0.0228 F1

0.0552 F1

1,4-Difluorobenzene (Surr) 95 70 - 130

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

Lab Sample ID: MB 880-34396/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 34334

	MB	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/13/22 11:41	09/13/22 19:23	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/13/22 11:41	09/13/22 19:23	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/22 11:41	09/13/22 19:23	1

MB MB

Surrogate	%Recovery	Qualifier L	imits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105	7	0 - 130	09/13/22 11:41	09/13/22 19:23	1
o-Terphenyl	110	7	0 - 130	09/13/22 11:41	09/13/22 19:23	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-34396/2-A

Matrix: Solid Analysis Batch: 34334

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	951.8		mg/Kg		95	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	917.8		mg/Kg		92	70 - 130	

C10-C28)

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Prep Type: Total/NA

Prep Batch: 34396

35

35

3

6

12

Prep Batch: 34396

Job ID: 890-2927-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

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

Lab Sample ID: LCS 880-34396/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 34334

Prep Type: Total/NA Prep Batch: 34396

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 133 S1+ 70 - 130 o-Terphenyl 133 S1+ 70 - 130

Lab Sample ID: LCSD 880-34396/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 34334 Prep Batch: 34396 Spike LCSD LCSD %Rec RPD Added Result Qualifier Unit D %Rec Limits RPD Limit

Analyte 1000 842.1 84 70 - 13012 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 981.9 98 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 130 128 70 - 130 o-Terphenyl

Lab Sample ID: 880-19130-A-8-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 34334

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 UF1 996 630.3 F1 mg/Kg 62 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 913.7 mg/Kg 92 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 97 70 - 130 o-Terphenyl 86

Lab Sample ID: 880-19130-A-8-C MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 34334

Matrix: Solid Prep Type: Total/NA Prep Batch: 34396

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U F1 999 645.9 F1 Gasoline Range Organics <49.9 63 70 - 130 2 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 899.8 mg/Kg 90 70 - 130 2 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 95 70 - 130 83 70 - 130 o-Terphenyl

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Prep Type: Total/NA

Prep Batch: 34396

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: BH01

Client Sample ID: BH01

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-2927-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34414/1-A

Matrix: Solid

Analysis Batch: 34568

мв мв

 Analyte
 Result Chloride
 Qualifier
 RL VIDIAN
 MDL VIDIAN
 Unit VIDIAN
 D VIDIAN
 Prepared VIDIAN
 Analyzed VIDIAN
 DII Fac VIDIAN

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 09/15/22 11:58
 1

Lab Sample ID: LCS 880-34414/2-A

Matrix: Solid

Analysis Batch: 34568

Spike LCS LCS %Rec Added Qualifier Analyte Result Unit D %Rec Limits Chloride 200 192.2 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-34414/3-A

Matrix: Solid

Analysis Batch: 34568

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 200 192.7 mg/Kg 90 - 110

Lab Sample ID: 890-2927-1 MS

Matrix: Solid

Analysis Batch: 34568

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 20.4 250 263.9 90 - 110 mg/Kg

Lab Sample ID: 890-2927-1 MSD

Matrix: Solid

Analysis Batch: 34568

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 20.4 265.5 mg/Kg 98 90 - 110 20

QC Association Summary

Client: Ensolum Job ID: 890-2927-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

GC VOA

Prep Batch: 34854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2927-1	BH01	Total/NA	Solid	5035	
890-2927-2	BH01	Total/NA	Solid	5035	
MB 880-34854/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34854/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34854/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19366-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-19366-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 34891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2927-1	BH01	Total/NA	Solid	8021B	34854
890-2927-2	BH01	Total/NA	Solid	8021B	34854
MB 880-34854/5-A	Method Blank	Total/NA	Solid	8021B	34854
LCS 880-34854/1-A	Lab Control Sample	Total/NA	Solid	8021B	34854
LCSD 880-34854/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34854
880-19366-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	34854
880-19366-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	34854

Analysis Batch: 35019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2927-1	BH01	Total/NA	Solid	Total BTEX	
890-2927-2	BH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 34334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2927-1	BH01	Total/NA	Solid	8015B NM	34396
890-2927-2	BH01	Total/NA	Solid	8015B NM	34396
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015B NM	34396
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34396
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34396
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015B NM	34396
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34396

Prep Batch: 34396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2927-1	BH01	Total/NA	Solid	8015NM Prep	
890-2927-2	BH01	Total/NA	Solid	8015NM Prep	
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 34484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2927-1	BH01	Total/NA	Solid	8015 NM	
890-2927-2	BH01	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: UCBH WW ROW BOOSTER STATION
Job ID: 890-2927-1
SDG: 03A1987009

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Leach Batch: 34414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2927-1	BH01	Soluble	Solid	DI Leach	
890-2927-2	BH01	Soluble	Solid	DI Leach	
MB 880-34414/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34414/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34414/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2927-1 MS	BH01	Soluble	Solid	DI Leach	
890-2927-1 MSD	BH01	Soluble	Solid	DI Leach	

Analysis Batch: 34568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2927-1	BH01	Soluble	Solid	300.0	34414
890-2927-2	BH01	Soluble	Solid	300.0	34414
MB 880-34414/1-A	Method Blank	Soluble	Solid	300.0	34414
LCS 880-34414/2-A	Lab Control Sample	Soluble	Solid	300.0	34414
LCSD 880-34414/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34414
890-2927-1 MS	BH01	Soluble	Solid	300.0	34414
890-2927-1 MSD	BH01	Soluble	Solid	300.0	34414

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Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2927-1 SDG: 03A1987009

Lab Sample ID: 890-2927-1

Matrix: Solid

Client Sample ID: BH01 Date Collected: 09/08/22 10:30 Date Received: 09/09/22 15:05

	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	34854	09/19/22 14:55	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34891	09/20/22 16:54	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35019	09/21/22 09:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34484	09/14/22 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34396	09/13/22 11:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/14/22 03:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34414	09/13/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1			34568	09/15/22 12:13	CH	EET MID

Client Sample ID: BH01 Lab Sample ID: 890-2927-2 Matrix: Solid

Date Collected: 09/08/22 10:45

Date Received: 09/09/22 15:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	34854	09/19/22 14:55	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34891	09/20/22 17:14	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35019	09/21/22 09:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34484	09/14/22 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34396	09/13/22 11:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/14/22 04:18	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34414	09/13/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1			34568	09/15/22 13:31	CH	EET MIC

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2927-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

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	NI	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this renert hu	it the leberatory is not contiffi	to all booking and committees as all a side of Their Booking.	
the agency does not of		at the laboratory is not certil	ied by the governing authority. This list ma	ay include analytes for v
,		Matrix	led by the governing authority. This list ma	ay include analytes for v
the agency does not of	fer certification.	•	, , ,	ay include analytes for v

6

8

10

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114

Method Summary

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2927-1

|--|

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: UCBH WW ROW BOOSTER STATION

Job ID: 890-2927-1

SDG: 03A1987009

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2927-1	BH01	Solid	09/08/22 10:30	09/09/22 15:05	0.5
890-2927-2	BH01	Solid	09/08/22 10:45	09/09/22 15:05	2

13 14

eurofins Xenco Environment Testing

Project Manag

City, State ZIF

\ddress: ompany Nar

SAMPLE RECEIPT

Temp Blank: Yes)

NO O

Thermometer ID: Yes No

FOOM Yes

Wet Ice:

N 0

Parameters

TAT starts the day received by the lab, if received by 4:30pm

Cooler Custody Seals: Samples Received Intact:

Yes! Yes

Z NA

Correction Factor:

Temperature Reading: Corrected Temperature:

BTEX - EPA METHOD 8021B

TPH - EPA METHOD 8015M/D

890-2927 Chain of Custody

H₂S0₄: H₂ HCL: HC

NaOH: Na

Cool: Cool None: NO

MeOH: Me HNO₃: HN

DI Water: H₂O

Na₂S₂O₃; NaSO₃

NaHSO₄; NABIS H₃PO₄: HP

CHLORIDE - EPA METHOD 300.0

몽 S,

ample Custody Seals:

Sample Identification

Matrix

Sampled

Sampled

0 5<u>1</u> Ń

Date

Time

Depth

Grab/

Comp

Cont

BH01

9/8/2022 9/8/2022

10:45 10:30

Grab/ Grab/ Sampler's Name:

Sanju Khatri

Project Location:

Project Number:

Project Name: hone:

UCBH WW ROW BOOSTER STATION

03A1987009

✓ Routine Due Date:

Rush

Code

5TAT

Turn Around

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (91 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Preservative Codes	ANALYSIS REQUEST	ANALYSI	Turn Around	IICRH WW ROW BOOSTER STATION	
ADaPT LJ Other:	Deliverables: EDD		Email: jim.raley@dvn.com	9898540852	
LPST/UST LIRRE	=	Carlsbad, NM 88220	City, State ZIP:	Dallas, TX 75220	
]	State of Project:	5315 Buena Vista Dr.	Address:	2351 W Northwest Hwy Suite 1203A	
Brownfields ☐\RC	Program: UST/PST PRP Brownfields RC Superfund	Devon Energy Corporation	Company Name:	Ensolum, LLC.	ne:
Work Order Comments	Work O	Jim Raley	Bill to: (if different)	Ben Belill	jer:
www.xenco.com ² age1 of1	www.xenco	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, Ni		

704-5440, San Antonio, TX (210) 509-3334	Work Order No: _					9	
15) 585-3443, Lubbock, TX (806) 794-1296							
5) 392-7550, Carlsbad, NM (575) 988-3199					•		
		2000 1 of 1	_	2,	_		

		6			
		,3	4		
			4-9-3 G 6-6-6	CVN AND	一支で大
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)
	ctors. It assigns standard terms and conditions sees are due to circumstances beyond the control terms will be enforced unless previously negotiated.	o, its affiliates and subcontractors. It assigns standars urred by the client if such losses are due to circumsta uco, but not analyzed. These terms will be enforced un	n client company to Eurofins Xenco lity for any losses or expenses incu 1 sample submitted to Eurofins Xen	oites. 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 fervice. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiate.	: Signature of this document and relinquis vice. Eurofins Xenco will be liable only for offins Xenco. A minimum charge of \$85.00
470 / 7471	TI U Hg: 1631 / 245.1 / 7470 / 7471	Cr Co Cu Pb Mn Mo Ni Se Ag TI U	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn		Sircle Method(s) and Metal(s) to be analyzed
U V Zn	o Ni K Se Ag SiO ₂ Na Sr Tl Sn		11 Al Sb As Ba Be B		Total 200.7 / 6010 200.8 / 6020:
					and the same of th

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn

Sample Comments

Cost center: 9030007583

Incident ID: NAB1805133508

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2927-1 SDG Number: 03A1987009

Login Number: 2927 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2927-1 SDG Number: 03A1987009

Login Number: 2927 **List Source: Eurofins Midland** List Number: 2

List Creation: 09/13/22 10:37 AM

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	

Released to Imaging: 11/25/2024/11/37/420\AM

<6mm (1/4").

Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 11/25/2024 11:37:20/AM

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2926-1

Laboratory Sample Delivery Group: 03A1987009

Client Project/Site: UCBH WW ROW BOOSTER STATION

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Devon Team

RAMER

Authorized for release by: 9/21/2022 5:16:54 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

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

Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION Laboratory Job ID: 890-2926-1 SDG: 03A1987009

Table of Contents

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Definitions/Glossary

Job ID: 890-2926-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Qualifier Description

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. 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

DL, RA, RE, IN

DLC

EDL

LOD

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)

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

LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level" MDA

Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MOI 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 **Practical Quantitation Limit PQL**

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Job ID: 890-2926-1

Case Narrative

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Job ID: 890-2926-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2926-1

Receipt

The samples were received on 9/9/2022 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34858 and analytical batch 880-34895 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-34396/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34396 and analytical batch 880-34334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Eurofins Carlsbad 9/21/2022

Matrix: Solid

Lab Sample ID: 890-2926-1

Client Sample Results

Client: Ensolum Job ID: 890-2926-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Client Sample ID: BH02

Date Collected: 09/08/22 11:15 Date Received: 09/09/22 15:05

Sample Depth: 0.5

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/22 15:06	09/21/22 12:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/22 15:06	09/21/22 12:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/22 15:06	09/21/22 12:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/19/22 15:06	09/21/22 12:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/22 15:06	09/21/22 12:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/19/22 15:06	09/21/22 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				09/19/22 15:06	09/21/22 12:39	1
1,4-Difluorobenzene (Surr)	113		70 - 130				09/19/22 15:06	09/21/22 12:39	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/21/22 15:17	1
Analyte Total TPH	Kesuit <50.0	Qualifier U	— RL 50.0	MDL	mg/Kg	D	Prepared	Analyzed	Dil Fac
Iotal IPH - -	<50.0	U	50.0		ma/Ka			00111100 00 01	
					mg/rtg			09/14/22 09:34	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)			mg/rtg			09/14/22 09:34	1
Method: 8015B NM - Diesel Rang Analyte	• •	RO) (GC) Qualifier	RL	MDL		D	Prepared	09/14/22 09:34 Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL	MDL		<u>D</u>	Prepared 09/13/22 11:41		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U	50.0	MDL	Unit mg/Kg	<u>D</u>	09/13/22 11:41	Analyzed 09/14/22 03:13	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0	Qualifier U U U	50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41	Analyzed 09/14/22 03:13 09/14/22 03:13 09/14/22 03:13	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0 <50.0	Qualifier U U U	50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41	Analyzed 09/14/22 03:13	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u> </u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41 Prepared	Analyzed 09/14/22 03:13 09/14/22 03:13 09/14/22 03:13 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u> </u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41 Prepared 09/13/22 11:41	Analyzed 09/14/22 03:13 09/14/22 03:13 09/14/22 03:13 Analyzed 09/14/22 03:13	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41 Prepared 09/13/22 11:41	Analyzed 09/14/22 03:13 09/14/22 03:13 09/14/22 03:13 Analyzed 09/14/22 03:13	Dil Fac

Client Sample ID: BH02

Date Collected: 09/08/22 11:30 Date Received: 09/09/22 15:05

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/19/22 15:06	09/21/22 12:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/19/22 15:06	09/21/22 12:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/19/22 15:06	09/21/22 12:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/19/22 15:06	09/21/22 12:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/19/22 15:06	09/21/22 12:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/19/22 15:06	09/21/22 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				09/19/22 15:06	09/21/22 12:59	1

Eurofins Carlsbad

Lab Sample ID: 890-2926-2

Matrix: Solid

2

3

6

3

11

13

-

Matrix: Solid

Lab Sample ID: 890-2926-2

Client Sample Results

Client: Ensolum Job ID: 890-2926-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Client Sample ID: BH02

Date Collected: 09/08/22 11:30 Date Received: 09/09/22 15:05

Sample Depth: 1

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	112		70 - 130				09/19/22 15:06	09/21/22 12:59	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/21/22 15:17	1
Method: 8015 NM - Diesel Range	o Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/14/22 09:34	1
	O	201 (00)							
Method: 8015B NM - Diesel Rang Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• • •	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 09/13/22 11:41	Analyzed 09/14/22 03:35	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	09/13/22 11:41	09/14/22 03:35	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U U U	49.9	MDL	mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41	09/14/22 03:35 09/14/22 03:35	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41	09/14/22 03:35 09/14/22 03:35 09/14/22 03:35	1

4.99

MDL Unit

mg/Kg

Prepared

Analyzed

09/14/22 03:21

Result Qualifier

604

Eurofins Carlsbad

12

. .

14

Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-2926-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	_
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19019-A-1-E MS	Matrix Spike	117	114	
880-19019-A-1-F MSD	Matrix Spike Duplicate	92	112	
890-2926-1	BH02	93	113	
890-2926-2	BH02	95	112	
LCS 880-34858/1-A	Lab Control Sample	91	102	
LCSD 880-34858/2-A	Lab Control Sample Dup	94	103	
MB 880-34692/5-A	Method Blank	102	116	
MB 880-34858/5-A	Method Blank	104	116	
Surrogate Legend				
BFB = 4-Bromofluoroben	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19130-A-8-B MS	Matrix Spike	97	86	
880-19130-A-8-C MSD	Matrix Spike Duplicate	95	83	
890-2926-1	BH02	124	123	
890-2926-2	BH02	97	99	
LCS 880-34396/2-A	Lab Control Sample	133 S1+	133 S1+	
LCSD 880-34396/3-A	Lab Control Sample Dup	130	128	
MB 880-34396/1-A	Method Blank	105	110	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2926-1 Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34692/5-A

Lab Sample ID: MB 880-34858/5-A

Analysis Batch: 34895

Matrix: Solid

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34692

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:15	09/20/22 17:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/16/22 16:15	09/20/22 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Xylenes, Total	<0.00400	U	0.00400				09/16/22 16:15	09/20/22 17:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/16/22 16:15	09/20/22 17:37	1
1.4-Difluorobenzene (Surr)	116		70 - 130	09/16/22 16:15	09/20/22 17:37	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34858

Analysis Batch: 34895

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/22 15:06	09/21/22 05:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/22 15:06	09/21/22 05:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/22 15:06	09/21/22 05:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/19/22 15:06	09/21/22 05:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/22 15:06	09/21/22 05:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/19/22 15:06	09/21/22 05:13	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/19/22 15:06	09/21/22 05:13	1
1,4-Difluorobenzene (Surr)	116		70 - 130	09/19/22 15:06	09/21/22 05:13	1

Lab Sample ID: LCS 880-34858/1-A

Matrix: Solid

Analysis Batch: 34895

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

Prep Batch: 34858

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09802		mg/Kg		98	70 - 130	
Toluene	0.100	0.08583		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08534		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	0.200	0.1780		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.08903		mg/Kg		89	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	91	70 _ 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-34858/2-A

Matrix: Solid

Analysis Batch: 34895

-34858/2-A			Client Sample ID: Lab Control Sample Dup	
			Prep Type: Total/NA	
			Prep Batch: 34858	
	Snike	LCSD LCSD	%Rec RPD	

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09393	-	mg/Kg		94	70 - 130	4	35

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QC Sample Results

Job ID: 890-2926-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

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

Lab Sample ID: LCSD 880-34858/2-A **Matrix: Solid**

Analysis Batch: 34895

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 34858

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08451		mg/Kg		85	70 - 130	2	35
Ethylbenzene	0.100	0.08316		mg/Kg		83	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1731		mg/Kg		87	70 - 130	3	35
o-Xylene	0.100	0.08797		mg/Kg		88	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-19019-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 34895

Prep Type: Total/NA

Prep Batch: 34858

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F2 F1	0.0998	0.04876	F1	mg/Kg		49	70 - 130	
Toluene	<0.00201	U F2 F1	0.0998	0.04594	F1	mg/Kg		46	70 - 130	
Ethylbenzene	<0.00201	U F2 F1	0.0998	0.04536	F1	mg/Kg		45	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.200	0.09537	F1	mg/Kg		48	70 - 130	
o-Xylene	<0.00201	U F2 F1	0.0998	0.05511	F1	mg/Kg		55	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	117	70 - 130
1,4-Difluorobenzene (Surr)	114	70 - 130

Lab Sample ID: 880-19019-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 34895

Prep Type: Total/NA

Prep Batch: 34858

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F2 F1	0.0990	0.1026	F2	mg/Kg		104	70 - 130	71	35
Toluene	<0.00201	U F2 F1	0.0990	0.08240	F2	mg/Kg		83	70 - 130	57	35
Ethylbenzene	<0.00201	U F2 F1	0.0990	0.07768	F2	mg/Kg		78	70 - 130	53	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.198	0.1614	F2	mg/Kg		82	70 - 130	51	35
o-Xylene	<0.00201	U F2 F1	0.0990	0.08266	F2	mg/Kg		83	70 - 130	40	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

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

Lab Sample ID: MB 880-34396/1-A

Matrix: Solid

Analysis Batch: 34334

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

Prep Batch: 34396

мв мв Result Qualifier MDL Unit Prepared <50.0 U 50.0 mg/Kg 09/13/22 11:41 09/13/22 19:23 Gasoline Range Organics (GRO)-C6-C10

Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION Job ID: 890-2926-1

SDG: 03A1987009

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

Lab Sample ID: MB 880-34396/1-A

Lab Sample ID: LCS 880-34396/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 34334

Analysis Batch: 34334

Client Sample	ID:	Method	Blanl
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Prep Type: Total/NA Prep Batch: 34396

ı		MB	MR							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/13/22 19:23	1
	C10-C28)									
	OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/13/22 19:23	1

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	105		70 - 130	09/13/22 11:41	09/13/22 19:23	1
Į	o-Terphenyl	110		70 - 130	09/13/22 11:41	09/13/22 19:23	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34396

Prep Type: Total/NA

Prep Batch: 34396

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 951.8 mg/Kg 95 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 917.8 mg/Kg 92 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 34334

Lab Sample ID: LCSD 880-34396/3-A

Lab Sample ID: 880-19130-A-8-B MS

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics 1000 842.1 mg/Kg 84 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 981.9 mg/Kg 98 70 - 130 7 20

C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	128		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 34396

Analysis Batch: 34334

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1	996	630.3	F1	mg/Kg		62	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	996	913.7		mg/Kg		92	70 - 130	
040 000)										

C10-C28)

Matrix: Solid

	MS	WS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	86		70 - 130

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70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

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QC Sample Results

Job ID: 890-2926-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

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

<49.9 U

Lab Sample ID: 880-19130-A-8-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 34334

Diesel Range Organics (Over

Prep Batch: 34396 Sample Sample MSD MSD RPD Spike Analyte Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics <49.9 U F1 999 645.9 F1 mg/Kg 63 70 - 130 2 20 (GRO)-C6-C10

899 8

mg/Kg

999

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 95 o-Terphenyl 83 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34376/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34467

MB MB

Result Qualifier MDL Analyte RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 09/14/22 00:37 U mg/Kg

Lab Sample ID: LCS 880-34376/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34467

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 90 - 110 242.6 mg/Kg 97

Lab Sample ID: LCSD 880-34376/3-A

Matrix: Solid

Analysis Batch: 34467

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec RPD Limit Chloride 250 243.0 97 90 - 110 mg/Kg 0

Lab Sample ID: 880-18884-A-8-D MS

Matrix: Solid

Analysis Batch: 34467

Sample Sample Spike MS MS %Rec Qualifier Added Qualifier Analyte Result Result %Rec Limits Unit Chloride 250 104 90 - 110 74.5 334.2 mg/Kg

Lab Sample ID: 880-18884-A-8-E MSD

Matrix: Solid

Analysis Batch: 34467

Sample Sample Spike MSD MSD %Rec RPD Qualifier Added Result Result Qualifier %Rec Limits RPD Limit Analyte Unit D Chloride 250 74.5 336.7 105 90 - 110 20 mg/Kg

QC Association Summary

Client: Ensolum Job ID: 890-2926-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

GC VOA

Prep Batch: 34692

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
1	MB 880-34692/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 34858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2926-1	BH02	Total/NA	Solid	5035	
890-2926-2	BH02	Total/NA	Solid	5035	
MB 880-34858/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34858/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34858/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19019-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-19019-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 34895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2926-1	BH02	Total/NA	Solid	8021B	34858
890-2926-2	BH02	Total/NA	Solid	8021B	34858
MB 880-34692/5-A	Method Blank	Total/NA	Solid	8021B	34692
MB 880-34858/5-A	Method Blank	Total/NA	Solid	8021B	34858
LCS 880-34858/1-A	Lab Control Sample	Total/NA	Solid	8021B	34858
LCSD 880-34858/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34858
880-19019-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	34858
880-19019-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	34858

Analysis Batch: 35089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2926-1	BH02	Total/NA	Solid	Total BTEX	
890-2926-2	BH02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 34334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2926-1	BH02	Total/NA	Solid	8015B NM	34396
890-2926-2	BH02	Total/NA	Solid	8015B NM	34396
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015B NM	34396
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34396
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34396
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015B NM	34396
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34396

Prep Batch: 34396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2926-1	BH02	Total/NA	Solid	8015NM Prep	
890-2926-2	BH02	Total/NA	Solid	8015NM Prep	
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: UCBH WW ROW BOOSTER STATION
Job ID: 890-2926-1
SDG: 03A1987009

GC Semi VOA

Analysis Batch: 34483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2926-1	BH02	Total/NA	Solid	8015 NM	
890-2926-2	BH02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2926-1	BH02	Soluble	Solid	DI Leach	_
890-2926-2	BH02	Soluble	Solid	DI Leach	
MB 880-34376/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34376/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34376/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18884-A-8-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-18884-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 34467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2926-1	BH02	Soluble	Solid	300.0	34376
890-2926-2	BH02	Soluble	Solid	300.0	34376
MB 880-34376/1-A	Method Blank	Soluble	Solid	300.0	34376
LCS 880-34376/2-A	Lab Control Sample	Soluble	Solid	300.0	34376
LCSD 880-34376/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34376
880-18884-A-8-D MS	Matrix Spike	Soluble	Solid	300.0	34376
880-18884-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34376

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Lab Chronicle

Client: Ensolum Job ID: 890-2926-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Client Sample ID: BH02 Lab Sample ID: 890-2926-1

Date Collected: 09/08/22 11:15 **Matrix: Solid** Date Received: 09/09/22 15:05

	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	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 12:39	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35089	09/21/22 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			34483	09/14/22 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34396	09/13/22 11:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/14/22 03:13	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34376	09/13/22 14:00	SMC	EET MID
Soluble	Analysis	300.0		10			34467	09/14/22 03:16	CH	EET MID

Lab Sample ID: 890-2926-2 **Client Sample ID: BH02**

Date Collected: 09/08/22 11:30 **Matrix: Solid** Date Received: 09/09/22 15:05

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.03 g 5 mL 34858 09/19/22 15:06 MR EET MID 8021B Total/NA 5 mL 09/21/22 12:59 **EET MID** Analysis 1 5 mL 34895 MR Total/NA Total BTEX 35089 09/21/22 15:17 Analysis 1 SM **EET MID** Total/NA Analysis 8015 NM 34483 09/14/22 09:34 SM **EET MID** Total/NA Prep 09/13/22 11:41 8015NM Prep 10.03 g 10 mL 34396 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 34334 09/14/22 03:35 SM **EET MID** Soluble 5.01 g 09/13/22 14:00 Leach DI Leach 50 mL 34376 SMC **EET MID** Soluble Analysis 300.0 34467 09/14/22 03:21 СН **EET MID**

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2926-1 Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

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 the agency does not of		it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
Analysis Method	Doors Made and	Matrix		
Analysis Method	Prep Method	Maurix	Analyte	
8015 NM	Ргер метпоа	Solid	Analyte Total TPH	

Method Summary

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2926-1 SDG: 03A1987009

Laboratory
EET MID

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

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Sample Summary

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2926-1

SDG: 03A1987009

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	D 41-
890-2926-1	BH02	Solid	09/08/22 11:15		Depth 0.5
					0.5
890-2926-2	BH02	Solid	09/08/22 11:30	09/09/22 15:05	1

13 14

eurofins

Xenco Environment Testing

Proje Proje Sam PO #

Phone:

Address: City, State ZIP:

Company Name: Project Manager:

Ensolum, LLC. Ben Belill

Dallas, TX 75220

jim.raley@dvn.com

2351 W Northwest Hwy Suite 1203A

Address:

City, State ZIP:

Carlsbad, NM 88220

Bill to: (if different)

Jim Raley

Company Name:

Devon Energy Corporation 5315 Buena Vista Dr.

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, NM (575) 392-7550, Carlsbad, NM (575) 988-31 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

190					
Č	www.xenco.com	o _a	⊃age1	of 1	
	Work Order Comments	omm	ents		
	Program: UST/PST PRP Brownfields RC Superfund	fields	□RC	∏superfund	
	State of Project:				
	Reporting: Level II	TSU		☐ Level IV	
	Deliverables: EDD		Other:	ה	

ct Name:	UCBH WW ROW BOOSTER STATION	STER STATION	Turn	Turn Around	0			1	ANALYSIS REQUEST	SI VALIA	
ct Number:	03A1987009	009	☑ Routine	Rush	Code	a :	H	H		None: NO DI Water: H ₂ O	. H ₂ O
ct Location:			Due Date:	5TAT						_	· ē
oler's Name:	Sanju Khatri	atri	TAT starts the	TAT starts the day received by	_	-	1	0.0			
			the lab, if reco	the lab, if received by 4:30pm	4	В	/D	300		H ₂ SO ₄ : H ₂ NaOH: Na	
PLE RECEIPT	Temp Blank:	(xes) No	Wet Ice:	Yes No	nete	3021	15M	HOD		H₃PO₄: HP	
oles Received Intact	lact: (Yes) No	Thermometer ID:	er ID:	LOD MIN	ırar	OD 8	D 80	/ET		Natso.: NABIS	-
er Custody Seals:	Yes No MA	Correction Factor:	actor:	6,0	Pa	TH	НО	'A N		Na ₂ S ₂ C ₃ ; NaSC ₃	
ole Custody Seals:	Yes No	Temperature Reading:	e Reading:	G . T	۷	ME	WET	- EP	890-2926 Chain of Custody	Zn Acetate+NaOH: Zn	
Containers:	Ц	Corrected T	Corrected Temperature:	4-0		EPA	PAI	IDE	_	NaOH+Ascorbic Acid: SAPC	
Sample Identification	ification Matrix	Date Sampled	Time Sampled	Depth Grab/	# of Cont	BTEX -	TPH - E	CHLOR		Sample Comments	
ВН02	S	9/8/2022	11:15	0.5' Grab/)/ 1	×	×	×		Incident ID:	
BH02	S	9/8/2022	11:30	1' Grab/	1	×	×	×		NAB 1000 1333000	
								-		Cost center: 9030007583	83
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otal 200.7 / 6010	otal 200.7 / 6010 200.8 / 6020:	ly sod	BRCRA 1	BRCRA 13PPM Texas 11 AISb As Ba	s 11	AI Sb	As E	P B	Sh As Ba Be B Cd Ca Cr Co Cu Fe Ph Mg Mn Mo N Sh As Ba Be Cd Cr Co Cu Ph Mn Mo Ni Se Ag Ti U	Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn o Ni Se Ag Tl U	
Signature of this d	ocument and relinquishme o will be liable only for the o	nt of samples cons cost of samples an	titutes a valid po d shall not assur	urchase order fro me any responsit	m clien	compan any loss le subm	ny to Eur	ofins Xe	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 rice. 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 fins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	dard terms and conditions stances beyond the control d unless previously negotiated.	
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					-						

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2926-1

SDG Number: 03A1987009

Login Number: 2926 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2926-1 SDG Number: 03A1987009

Login Number: 2926 **List Source: Eurofins Midland** List Number: 2

List Creation: 09/13/22 10:37 AM

Creator: Rodriguez, Leticia

<6mm (1/4").

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	

Eurofins Carlsbad

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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: 890-2925-1

Laboratory Sample Delivery Group: 03A1987009

Client Project/Site: UCBH WW ROW BOOSTER STATION

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Devon Team

JURAMER

Authorized for release by: 9/21/2022 5:16:39 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results relate only to

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.

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Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION Laboratory Job ID: 890-2925-1 SDG: 03A1987009

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Definitions/Glossary

Job ID: 890-2925-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. 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

EDL

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 Contains No Free Liquid **CNF** Duplicate Error Ratio (normalized absolute difference) DER Dil Fac Dilution Factor 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)

LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)

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

NC Not Calculated

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

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

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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: UCBH WW ROW BOOSTER STATION

Job ID: 890-2925-1

SDG: 03A1987009

Job ID: 890-2925-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2925-1

Receipt

The samples were received on 9/9/2022 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34858 and analytical batch 880-34895 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-34396/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34396 and analytical batch 880-34334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-2925-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Client Sample ID: BH03

Lab Sample ID: 890-2925-1 Date Collected: 09/08/22 14:15 Date Received: 09/09/22 15:05

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		09/19/22 15:06	09/21/22 11:58	
Toluene	<0.00201	U	0.00201		mg/Kg		09/19/22 15:06	09/21/22 11:58	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/19/22 15:06	09/21/22 11:58	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/19/22 15:06	09/21/22 11:58	
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/19/22 15:06	09/21/22 11:58	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/19/22 15:06	09/21/22 11:58	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	95		70 - 130				09/19/22 15:06	09/21/22 11:58	
1,4-Difluorobenzene (Surr)	110		70 - 130				09/19/22 15:06	09/21/22 11:58	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/21/22 15:17	
Analyte Total TPH	<49.9	Qualifier U	RL 49.9	MDL	mg/Kg	D	Prepared	Analyzed 09/14/22 09:34	Dil Fa
-			49.9		mg/Kg			09/14/22 09:34	
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/13/22 11:41	09/14/22 02:31	
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		09/13/22 11:41	09/14/22 02:31	
(:10 ₊ (:28)									
C10-C28) OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 11:41	09/14/22 02:31	
Oll Range Organics (Over C28-C36)	<49.9 %Recovery		49.9 <i>Limits</i>		mg/Kg		09/13/22 11:41 Prepared	09/14/22 02:31 Analyzed	Dil Fa
Oll Range Organics (Over C28-C36) Surrogate					mg/Kg				Dil Fa
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil F
Oll Range Organics (Over C28-C36) Surrogate	%Recovery 101 102	Qualifier	Limits 70 - 130		mg/Kg		Prepared 09/13/22 11:41	Analyzed 09/14/22 02:31	Dil F
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 101 102 comatography -	Qualifier	Limits 70 - 130	MDL		D	Prepared 09/13/22 11:41	Analyzed 09/14/22 02:31	

Client Sample ID: BH03 Lab Sample ID: 890-2925-2

Date Collected: 09/08/22 14:30 Date Received: 09/09/22 15:05

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/19/22 15:06	09/21/22 12:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/19/22 15:06	09/21/22 12:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/19/22 15:06	09/21/22 12:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/19/22 15:06	09/21/22 12:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/19/22 15:06	09/21/22 12:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/19/22 15:06	09/21/22 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				09/19/22 15:06	09/21/22 12:18	1

Eurofins Carlsbad

Matrix: Solid

Client Sample Results

Client: Ensolum
Project/Site: UCBH WW ROW BOOSTER STATION
Job ID: 890-2925-1
SDG: 03A1987009

Client Sample ID: BH03 Lab Sample ID: 890-2925-2

. Matrix: Solid

09/13/22 11:41

09/14/22 02:52

Date Received: 09/09/22 15:05 Sample Depth: 1

o-Terphenyl

Date Collected: 09/08/22 14:30

Method: 8021B - Volatile Organic 0	Compounds ((GC) (Contin	ued)			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	09/19/22 15:06	09/21/22 12:18	1

	Method: Total BTEX - Total BTEX C	alculation								
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total BTEX	<0.00404	U	0.00404		mg/Kg			09/21/22 15:17	1

	Method: 8015 NM - Diesel Range O	rganics (DRO) (GC)						
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	<50.0 U	50.0	mg/Kg			09/14/22 09:34	1

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/14/22 02:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/14/22 02:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/14/22 02:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				09/13/22 11:41	09/14/22 02:52	1

Method: 300.0 - Anions, Ion Chroma	atography - S	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.2		5.00		mg/Kg			09/14/22 03:11	1

70 - 130

102

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Surrogate Summary

Client: Ensolum Job ID: 890-2925-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

Perce
BFB1 DFBZ1
Lab Sample ID Client Sample ID (70-130) (70-130)
880-19019-A-1-E MS Matrix Spike 117 114
880-19019-A-1-F MSD Matrix Spike Duplicate 92 112
890-2925-1 BH03 95 110
890-2925-2 BH03 107 111
LCS 880-34858/1-A Lab Control Sample 91 102
LCSD 880-34858/2-A Lab Control Sample Dup 94 103
MB 880-34692/5-A Method Blank 102 116
MB 880-34858/5-A Method Blank 104 116
Surrogate Legend

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19130-A-8-B MS	Matrix Spike	97	86	
880-19130-A-8-C MSD	Matrix Spike Duplicate	95	83	
890-2925-1	BH03	101	102	
890-2925-2	BH03	101	102	
LCS 880-34396/2-A	Lab Control Sample	133 S1+	133 S1+	
LCSD 880-34396/3-A	Lab Control Sample Dup	130	128	
MB 880-34396/1-A	Method Blank	105	110	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum Job ID: 890-2925-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34692/5-A

Lab Sample ID: MB 880-34858/5-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 34895

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34692

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:15	09/20/22 17:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/16/22 16:15	09/20/22 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/16/22 16:15	09/20/22 17:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Dil Fac Prepared Analyzed 09/16/22 16:15 09/20/22 17:37 09/16/22 16:15 09/20/22 17:37

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 34858

Analysis Batch: 34895

	III.D								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/22 15:06	09/21/22 05:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/22 15:06	09/21/22 05:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/22 15:06	09/21/22 05:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/19/22 15:06	09/21/22 05:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/22 15:06	09/21/22 05:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/19/22 15:06	09/21/22 05:13	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Pre	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/19/2	22 15:06	09/21/22 05:13	1
1,4-Difluorobenzene (Surr)	116		70 - 130	09/19/2	22 15:06	09/21/22 05:13	1

Lab Sample ID: LCS 880-34858/1-A

Matrix: Solid

Analysis Batch: 34895

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

Prep Batch: 34858

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09802		mg/Kg		98	70 - 130	
Toluene	0.100	0.08583		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08534		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	0.200	0.1780		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.08903		mg/Kg		89	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	91	70 _ 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-34858/2-A

Matrix: Solid

Analysis Batch: 34895

Client Sample	ID: Lab	Control	l Sample	Dup
		Prep T	vpe: Tota	al/NA

Prep Batch: 34858

	Бріке	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09393	mg/Kg		94	70 - 130	4	35	

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Page 8 of 20

Prep Batch: 34858

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Job ID: 890-2925-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

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

Lab Sample ID: LCSD 880-34858/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 34895

,									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08451		mg/Kg		85	70 - 130	2	35
Ethylbenzene	0.100	0.08316		mg/Kg		83	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1731		mg/Kg		87	70 - 130	3	35
o-Xylene	0.100	0.08797		mg/Kg		88	70 - 130	1	35
	Analyte Toluene Ethylbenzene m-Xylene & p-Xylene	Analyte Added Toluene 0.100 Ethylbenzene 0.100 m-Xylene & p-Xylene 0.200	Analyte Added Result Toluene 0.100 0.08451 Ethylbenzene 0.100 0.08316 m-Xylene & p-Xylene 0.200 0.1731	Analyte Added Result Qualifier Toluene 0.100 0.08451 Ethylbenzene 0.100 0.08316 m-Xylene & p-Xylene 0.200 0.1731	Analyte Added Result Qualifier Unit Toluene 0.100 0.08451 mg/Kg Ethylbenzene 0.100 0.08316 mg/Kg m-Xylene & p-Xylene 0.200 0.1731 mg/Kg	Analyte Added Result Qualifier Unit D Toluene 0.100 0.08451 mg/Kg Ethylbenzene 0.100 0.08316 mg/Kg m-Xylene & p-Xylene 0.200 0.1731 mg/Kg	Analyte Added Result Qualifier Unit D %Rec Toluene 0.100 0.08451 mg/Kg 85 Ethylbenzene 0.100 0.08316 mg/Kg 83 m-Xylene & p-Xylene 0.200 0.1731 mg/Kg 87	Analyte Added Result Qualifier Unit D %Rec Limits Toluene 0.100 0.08451 mg/Kg 85 70 - 130 Ethylbenzene 0.100 0.08316 mg/Kg 83 70 - 130 m-Xylene & p-Xylene 0.200 0.1731 mg/Kg 87 70 - 130	Analyte Added Result Qualifier Unit D %Rec Limits RPD Toluene 0.100 0.08451 mg/Kg 85 70 - 130 2 Ethylbenzene 0.100 0.08316 mg/Kg 83 70 - 130 3 m-Xylene & p-Xylene 0.200 0.1731 mg/Kg 87 70 - 130 3

LCSD LCSD %Recovery Qualifier Surrogate Limits 70 - 130 4-Bromofluorobenzene (Surr) 94 1,4-Difluorobenzene (Surr) 103 70 - 130

Lab Sample ID: 880-19019-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

							Prep	Batch: 34858
Sample Sample	Spike	MS	MS				%Rec	
Result Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.00201 UF2 F1	0.0998	0.04876	F1	mg/Kg		49	70 - 130	
0.00201 U F2 F1	0.0998	0.04594	F1	mg/Kg		46	70 - 130	
0.00201 U F2 F1	0.0998	0.04536	F1	mg/Kg		45	70 - 130	
0.00402 U F2 F1	0.200	0.09537	F1	mg/Kg		48	70 - 130	
0.00201 U F2 F1	0.0998	0.05511	F1	mg/Kg		55	70 - 130	
	Result Qualifier 0.00201 U F2 F1 0.00201 U F2 F1 0.00201 U F2 F1 0.00402 U F2 F1	Result Qualifier Added 0.00201 U F2 F1 0.0998 0.00201 U F2 F1 0.0998 0.00201 U F2 F1 0.0998 0.00402 U F2 F1 0.200	Result Qualifier Added Result 0.00201 U F2 F1 0.0998 0.04876 0.00201 U F2 F1 0.0998 0.04594 0.00201 U F2 F1 0.0998 0.04536 0.00402 U F2 F1 0.200 0.09537	Result Qualifier Added Result Qualifier 0.00201 U F2 F1 0.0998 0.04876 F1 0.00201 U F2 F1 0.0998 0.04594 F1 0.00201 U F2 F1 0.0998 0.04536 F1 0.00402 U F2 F1 0.200 0.09537 F1	Result Qualifier Added Result Qualifier Unit 0.00201 U F2 F1 0.0998 0.04876 F1 mg/Kg 0.00201 U F2 F1 0.0998 0.04594 F1 mg/Kg 0.00201 U F2 F1 0.0998 0.04536 F1 mg/Kg 0.00402 U F2 F1 0.200 0.09537 F1 mg/Kg	Result Qualifier Added Result Qualifier Unit D 0.00201 U F2 F1 0.0998 0.04876 F1 mg/Kg 0.00201 U F2 F1 0.0998 0.04594 F1 mg/Kg 0.00201 U F2 F1 0.0998 0.04536 F1 mg/Kg 0.00402 U F2 F1 0.200 0.09537 F1 mg/Kg	Result Qualifier Added Result Qualifier Unit D %Rec 0.00201 U F2 F1 0.0998 0.04876 F1 mg/Kg 49 0.00201 U F2 F1 0.0998 0.04594 F1 mg/Kg 46 0.00201 U F2 F1 0.0998 0.04536 F1 mg/Kg 45 0.00402 U F2 F1 0.200 0.09537 F1 mg/Kg 48	Result Qualifier Added Result Qualifier Unit D %Rec Limits 0.00201 U F2 F1 0.0998 0.04876 F1 mg/Kg 49 70 - 130 0.00201 U F2 F1 0.0998 0.04594 F1 mg/Kg 46 70 - 130 0.00201 U F2 F1 0.0998 0.04536 F1 mg/Kg 45 70 - 130 0.00402 U F2 F1 0.200 0.09537 F1 mg/Kg 48 70 - 130

MS MS Qualifier Surrogate %Recovery Limits 70 - 130 4-Bromofluorobenzene (Surr) 117 1,4-Difluorobenzene (Surr) 70 - 130 114

Lab Sample ID: 880-19019-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 34895									Prep	Batch:	34858
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F2 F1	0.0990	0.1026	F2	mg/Kg		104	70 - 130	71	35
Toluene	<0.00201	U F2 F1	0.0990	0.08240	F2	mg/Kg		83	70 - 130	57	35
Ethylbenzene	<0.00201	U F2 F1	0.0990	0.07768	F2	mg/Kg		78	70 - 130	53	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.198	0.1614	F2	mg/Kg		82	70 - 130	51	35
o-Xylene	<0.00201	U F2 F1	0.0990	0.08266	F2	mg/Kg		83	70 - 130	40	35

	MOD	MOD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

MSD MSD

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

Lab Sample ID: MB 880-34396/1-A

Matrix: Solid

Analysis Batch: 34334

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 34396

мв мв Result Qualifier MDL Unit Prepared Gasoline Range Organics <50.0 U 50.0 09/13/22 11:41 09/13/22 19:23 mg/Kg (GRO)-C6-C10

QC Sample Results

Client: Ensolum Job ID: 890-2925-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

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

Lab Sample ID: MB 880-34396/1-A

Matrix: Solid

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

Analysis Batch: 34334

MB MB

Prep Batch: 34396

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/13/22 19:23	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/13/22 19:23	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				09/13/22 11:41	09/13/22 19:23	1
o-Terphenyl	110		70 - 130				09/13/22 11:41	09/13/22 19:23	1

Lab Sample ID: LCS 880-34396/2-A

Matrix: Solid

Analysis Batch: 34334

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34396

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 951.8 95 70 - 130 mg/Kg (GRO)-C6-C10 1000 917.8 Diesel Range Organics (Over mg/Kg 92 70 - 130 C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 133
 S1+
 70 - 130

 o-Terphenyl
 133
 S1+
 70 - 130

Lab Sample ID: LCSD 880-34396/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Applysis Retable 34334

Analysis Batch: 34334 Prep Batch: 34396
Spike LCSD LCSD %Rec RPD

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	842.1		mg/Kg		84	70 - 130	12	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	981.9		mg/Kg		98	70 - 130	7	20	
C10-C28)										

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 130
 70 - 130

 o-Terphenyl
 128
 70 - 130

Lab Sample ID: 880-19130-A-8-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 34334 Prep Batch: 34396

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1	996	630.3	F1	mg/Kg		62	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	996	913.7		mg/Kg		92	70 - 130	
C10-C28)										

C10-C26)			
	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 _ 130
o-Terphenyl	86		70 - 130

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Client: Ensolum Job ID: 890-2925-1 Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

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

Lab Sample ID: 880-19130-A-8-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 34334 Prep Batch: 34396

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U F1	999	645.9	F1	mg/Kg		63	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	899.8		mg/Kg		90	70 - 130	2	20
C10-C28)											

	พเรษ	INISD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	83		70 - 130

<5.00 U

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34376/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analyte

Chloride

Analysis Batch: 34467

мв мв Result Qualifier MDL Unit RL Prepared Analyzed

mg/Kg

5.00 Lab Sample ID: LCS 880-34376/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34467

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	242.6		mg/Kg		97	90 - 110	

Lab Sample ID: LCSD 880-34376/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 34467

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 243.0 97 90 - 110 mg/Kg

Lab Sample ID: 880-18884-A-8-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34467

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	74.5		250	334.2		ma/Ka		104	90 110	

Lab Sample ID: 880-18884-A-8-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 34467

Alialysis Datcil. 34401											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	74.5		250	336.7		mg/Kg		105	90 - 110	1	20

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Prep Type: Soluble

Dil Fac

09/14/22 00:37

QC Association Summary

Client: Ensolum Job ID: 890-2925-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

GC VOA

Prep Batch: 34692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34692/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 34858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2925-1	BH03	Total/NA	Solid	5035	
890-2925-2	BH03	Total/NA	Solid	5035	
MB 880-34858/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34858/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34858/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19019-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-19019-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 34895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2925-1	BH03	Total/NA	Solid	8021B	34858
890-2925-2	BH03	Total/NA	Solid	8021B	34858
MB 880-34692/5-A	Method Blank	Total/NA	Solid	8021B	34692
MB 880-34858/5-A	Method Blank	Total/NA	Solid	8021B	34858
LCS 880-34858/1-A	Lab Control Sample	Total/NA	Solid	8021B	34858
LCSD 880-34858/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34858
880-19019-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	34858
880-19019-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	34858

Analysis Batch: 35088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2925-1	BH03	Total/NA	Solid	Total BTEX	
890-2925-2	BH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 34334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2925-1	BH03	Total/NA	Solid	8015B NM	34396
890-2925-2	BH03	Total/NA	Solid	8015B NM	34396
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015B NM	34396
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34396
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34396
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015B NM	34396
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34396

Prep Batch: 34396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2925-1	BH03	Total/NA	Solid	8015NM Prep	
890-2925-2	BH03	Total/NA	Solid	8015NM Prep	
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum Job ID: 890-2925-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

GC Semi VOA

Analysis Batch: 34482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2925-1	BH03	Total/NA	Solid	8015 NM	
890-2925-2	BH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2925-1	BH03	Soluble	Solid	DI Leach	
890-2925-2	BH03	Soluble	Solid	DI Leach	
MB 880-34376/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34376/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34376/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18884-A-8-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-18884-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 34467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2925-1	BH03	Soluble	Solid	300.0	34376
890-2925-2	BH03	Soluble	Solid	300.0	34376
MB 880-34376/1-A	Method Blank	Soluble	Solid	300.0	34376
LCS 880-34376/2-A	Lab Control Sample	Soluble	Solid	300.0	34376
LCSD 880-34376/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34376
880-18884-A-8-D MS	Matrix Spike	Soluble	Solid	300.0	34376
880-18884-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34376

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Client Sample ID: BH03

Date Collected: 09/08/22 14:15

Date Received: 09/09/22 15:05

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2925-1 SDG: 03A1987009

Lab Sample ID: 890-2925-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 11:58	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35088	09/21/22 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			34482	09/14/22 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34396	09/13/22 11:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/14/22 02:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34376	09/13/22 14:00	SMC	EET MID
Soluble	Analysis	300.0		1			34467	09/14/22 03:06	CH	EET MID

Client Sample ID: BH03 Lab Sample ID: 890-2925-2 Matrix: Solid

Date Collected: 09/08/22 14:30 Date Received: 09/09/22 15:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 12:18	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35088	09/21/22 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			34482	09/14/22 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34396	09/13/22 11:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/14/22 02:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34376	09/13/22 14:00	SMC	EET MID
Soluble	Analysis	300.0		1			34467	09/14/22 03:11	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2925-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date	
		ELAP	T104704400-22-24	06-30-23	
The following analytes	are included in this report, bu	it the laboratory is not certific	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		

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Method Summary

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2925-1

SDG: 03A1987009

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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: UCBH WW ROW BOOSTER STATION

Job ID: 890-2925-1

SDG: 03A1987009

		-

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2925-1	BH03	Solid	09/08/22 14:15	09/09/22 15:05	0.5
890-2925-2	BH03	Solid	09/08/22 14:30	09/09/22 15:05	1

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eurofins 🔆 **Environment Testing** Xenco

Project Location: Project Number:

> Due Date: Routine

Project Name:

UCBH WW ROW BOOSTER STATION 03A1987009

City, State ZIP:

9898540852 Dallas, TX 75220

Email: jim.raley@dvn.com

Turn Around

Rush

Pres.

ANALYSIS REQUEST

Project Manager:

Ben Belill Ensolum, LLC.

Company Name: ddress:

2351 W Northwest Hwy Suite 1203A

Address:

City, State ZIP:

Carlsbad, NM 88220 5315 Buena Vista Dr. Devon Energy Corporation

□RRP □Level IV □

Deliverables: EDD

ADaPT \square

Other:

None: NO

DI Water: H₂O

Preservative Codes

Bill to: (if different) Company Name:

Jim Raley

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-333 EL Paso, TX (915) 585-3443, Lubbock, TX Hobbs, NM (575) 392-7550, Carlsbad, NM

	State of Broject:	Program: UST/PST PRP Brownfields RC buperfund	Work Order Comments	www.xenco.com ² age 1 of 1	(575) 988-3199	(806) 794-1296	x (210) 509-3334 Work Order No:
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Sample Receipt Temp Blank Crab No Wester he day received by - 200m Sample Received hinds: Crab No Wester he day received by - 200m Sample Received hinds: Crab No Wester he day received by - 200m Sample Received hinds: Crab No Wester he day received by - 200m Sample Received hinds: Crab No Wester he day received by - 200m Sample Consider heads Crab No Wester he day received by - 200m Sample Received hinds: Crab No Wester he day received by - 200m Sample Consider heads No No Wester he day received by - 200m Sample Received hinds: Crab No No No No No No No N	5	3	1 Her	Relinquished by: (Signature)	Notice: Signature of this docume of service. Eurofins Xenco will be of Eurofins Xenco. A minimum of	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010	\	\				вн03	вноз	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT	PO#:	Sampler's Name:	
The lab if received by 4:30pm by the lab if received by (Signature) An an and a charge of \$5 for each sample submitted to Euroffix Xence, but not analyzed. These terms will be enforced unless proviously responsible for any long of \$5 for each sample submitted to Euroffix Xence, but not analyzed. These terms will be enforced unless previously responsible for any long of \$5 for each sample submitted to Euroffix Xence, but not analyzed. These terms will be enforced unless previously responsible for any long in the careful of the caref			loe	nature) \	ent and relinquishment of sar se liable only for the cost of s charge of \$85.00 will be applic	stal(s) to be analyzed	200.8 / 6020:			\	\				Matrix	Col	NO NIR	No (N)	No	-		Sanju Khatri	
Comp Conn BT H C C C C C C C C C	-		Chi	Received by: (Signa	nples constitutes a valid amples and shall not ass ed to each project and a c	TCLP,	8RCRA							П		rected Temperature:	nperature Reading:	rection Factor:	rmometer ID:	N _o	the lab, if re	TAT starts th	-
Parameters Parameters Parameters BD0-2925 Chain of Custody BD0-2925 Chain of Custody BD0-2925 Chain of Custody A X X X X X X X X X X X X X X X X X X				ature)	purchase order from cl ume any responsibility harge of \$5 for each sa	SPLP 6010: 8R	13PPM Texas 1								Grab/ Comp	4.0		10.0	FOOWER THE		ceived by 4:30pm	e day received by	
	σ	4	1505	Date/Time Relinquished by: (Signature) Received by: (nt company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions or any losses or expenses incurred by the client if such losses are due to circumstances beyond the contropies submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negoti	RA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg	Sh As Ba Be B Cd Ca Cr Co Cu Fe Ph Mg Mn Mo Ni K Se Ag						×	×	BTEX	EPA	ME	THO 890-29	OD 8	8021 015N	B I/D		

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2925-1 SDG Number: 03A1987009

List Source: Eurofins Carlsbad

Login Number: 2925 List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2925-1 SDG Number: 03A1987009

Login Number: 2925 **List Source: Eurofins Midland** List Number: 2 List Creation: 09/13/22 10:37 AM

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	
s the Field Sampler's name present on COC?	True	
here are no discrepancies between the containers received and the COC.	True	
amples are received within Holding Time (excluding tests with immediate ITs)	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	

Released to Imaging: 11/25/2024/11/37/420\AM

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2924-1

Laboratory Sample Delivery Group: 03A1987009

Client Project/Site: UCBH WW ROW BOOSTER STATION

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Devon Team

RAMER

9/22/2022 9:13:32 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

Have a Question?

EOL

..... LINKS

Review your project results through

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 11/25/2024 11:37:20/AM 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

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

Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION Laboratory Job ID: 890-2924-1 SDG: 03A1987009

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Definitions/Glossary

Client: Ensolum Job ID: 890-2924-1 Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

LOD

NC

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
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
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)
FDI	Estimated Detection Limit (Dioxin)

LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Limit of Detection (DoD/DOE)

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

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

Not Calculated

QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

RL	Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2924-1

SDG: 03A1987009

Job ID: 890-2924-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2924-1

Receipt

The samples were received on 9/9/2022 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-34396/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34396 and analytical batch 880-34334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34288 and analytical batch 880-34499 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-2924-1

Job ID: 890-2924-1

Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Client Sample ID: BH04

Date Collected: 09/08/22 13:45 Date Received: 09/09/22 15:05

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/19/22 14:33	09/22/22 04:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/19/22 14:33	09/22/22 04:11	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/19/22 14:33	09/22/22 04:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/19/22 14:33	09/22/22 04:11	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/19/22 14:33	09/22/22 04:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/19/22 14:33	09/22/22 04:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				09/19/22 14:33	09/22/22 04:11	1
1,4-Difluorobenzene (Surr)	84		70 - 130				09/19/22 14:33	09/22/22 04:11	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/22/22 09:56	1
Analyte	Dogulé								
<i>y</i>	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		RL 49.9	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 09/14/22 09:34	
	<49.9	U		MDL		<u>D</u>	Prepared		
Total TPH	<49.9 ge Organics (D	RO) (GC) Qualifier		MDL	mg/Kg	D	Prepared	09/14/22 09:34 Analyzed	1
Total TPH Method: 8015B NM - Diesel Ran	<49.9	RO) (GC) Qualifier	49.9		mg/Kg	=	<u> </u>	09/14/22 09:34	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg	=	Prepared	09/14/22 09:34 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	<pre>c <49.9 ge Organics (D) Result </pre>	U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 09/13/22 11:41	09/14/22 09:34 Analyzed 09/14/22 01:48	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ge Organics (Display="2">Result <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/13/22 11:41 09/13/22 11:41	09/14/22 09:34 Analyzed 09/14/22 01:48 09/14/22 01:48	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/13/22 11:41 09/13/22 11:41	09/14/22 09:34 Analyzed 09/14/22 01:48 09/14/22 01:48	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/13/22 11:41 09/13/22 11:41 09/13/22 11:41 Prepared	09/14/22 09:34 Analyzed 09/14/22 01:48 09/14/22 01:48 09/14/22 01:48 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 123 122	U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/13/22 11:41 09/13/22 11:41 09/13/22 11:41 Prepared 09/13/22 11:41	09/14/22 09:34 Analyzed 09/14/22 01:48 09/14/22 01:48 Analyzed 09/14/22 01:48	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	qe Organics (D) Result <49.9 <49.9 <49.9 *Recovery 123 122 omatography -	U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	=	Prepared 09/13/22 11:41 09/13/22 11:41 09/13/22 11:41 Prepared 09/13/22 11:41	09/14/22 09:34 Analyzed 09/14/22 01:48 09/14/22 01:48 Analyzed 09/14/22 01:48	1 1 <i>Dil Fac</i>

Client Sample ID: BH04 Lab Sample ID: 890-2924-2 Matrix: Solid

Date Collected: 09/08/22 14:00 Date Received: 09/09/22 15:05

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/22/22 04:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/22/22 04:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/22/22 04:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/19/22 14:33	09/22/22 04:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/22/22 04:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/19/22 14:33	09/22/22 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/19/22 14:33	09/22/22 04:32	

Client Sample Results

Client: Ensolum Job ID: 890-2924-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Client Sample ID: BH04 Lab Sample ID: 890-2924-2 Date Collected: 09/08/22 14:00

420

Matrix: Solid

09/15/22 00:53

Date Received: 09/09/22 15:05 Sample Depth: 1

Chloride

urrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Difluorobenzene (Surr)	85		70 - 130				09/19/22 14:33	09/22/22 04:32	1
lethod: Total BTEX - Total BTE	X Calculation								
nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00400	U	0.00400		mg/Kg			09/22/22 09:56	1
lethod: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)							
nalyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
otal TPH	<50.0	U	50.0		mg/Kg			09/14/22 09:34	1
nalyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
lethod: 8015B NM - Diesel Rar	nge Organics (DI	RO) (GC)							
asoline Range Organics GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/14/22 02:09	1
iesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/14/22 02:09	1
10-C28)					0 0				
Il Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/14/22 02:09	1
urrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Chlorooctane	120		70 - 130				09/13/22 11:41	09/14/22 02:09	1
Terphenyl	118		70 - 130				09/13/22 11:41	09/14/22 02:09	1

25.3

mg/Kg

Surrogate Summary

Job ID: 890-2924-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2915-A-1-C MS	Matrix Spike	115	109	
890-2915-A-1-D MSD	Matrix Spike Duplicate	117	102	
890-2924-1	BH04	114	84	
890-2924-2	BH04	113	85	
LCS 880-34851/1-A	Lab Control Sample	114	106	
LCSD 880-34851/2-A	Lab Control Sample Dup	115	108	
MB 880-34851/5-A	Method Blank	88	77	
MB 880-34941/5-A	Method Blank	100	93	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-19130-A-8-B MS	Matrix Spike	97	86	
880-19130-A-8-C MSD	Matrix Spike Duplicate	95	83	
390-2924-1	BH04	123	122	
390-2924-2	BH04	120	118	
.CS 880-34396/2-A	Lab Control Sample	133 S1+	133 S1+	
LCSD 880-34396/3-A	Lab Control Sample Dup	130	128	
MB 880-34396/1-A	Method Blank	105	110	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

Released to Imaging: 11/25/2024 11:37420/AM

Client: Ensolum Job ID: 890-2924-1 Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34851/5-A

Analysis Batch: 35013

Matrix: Solid

Lab Sample ID: LCS 880-34851/1-A

Matrix: Solid

o-Xylene

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34851

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/21/22 20:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/21/22 20:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/21/22 20:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/19/22 14:33	09/21/22 20:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/21/22 20:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/19/22 14:33	09/21/22 20:40	1

MB MB

MD MD

Surrogate	%Recovery (Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88	70 - 130	09/19/22 14:33	09/21/22 20:40	1
1,4-Difluorobenzene (Surr)	77	70 - 130	09/19/22 14:33	09/21/22 20:40	1

Client Sample ID: Lab Control Sample

70 - 130

Prep Type: Total/NA

Prep Batch: 34851

Analysis Batch: 35013 Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09662 mg/Kg 97 70 - 130 Toluene 0.100 0.08888 mg/Kg 89 70 - 130 0.100 0.09395 Ethylbenzene mg/Kg 94 70 - 130 0.200 0.1964 98 70 - 130 m-Xylene & p-Xylene mg/Kg

0.100

0.1106

mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Client Sample ID: Lab Control Sample Dup

111

Lab Sample ID: LCSD 880-34851/2-A **Matrix: Solid Analysis Batch: 35013**

Prep Type: Total/NA Prep Batch: 34851

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.09096 mg/Kg 91 70 - 130 6 35 Toluene 0.100 0.08531 mg/Kg 85 70 - 130 35 Ethylbenzene 0.100 0.08835 mg/Kg 88 70 - 130 6 35 0.200 m-Xylene & p-Xylene 0.1845 mg/Kg 92 70 - 130 35 0.100 0.1080 o-Xylene mg/Kg 108 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1.4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-2915-A-1-C MS

Matrix: Solid

Analysis Batch: 35013

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

Prep Batch: 34851

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.101	0.09155		mg/Kg	_	91	70 - 130	
Toluene	<0.00202	U	0.101	0.08263		mg/Kg		82	70 - 130	

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Page 8 of 20

QC Sample Results

Client: Ensolum Job ID: 890-2924-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

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

Lab Sample ID: 890-2915-A-1-C MS

Matrix: Solid

Analysis Batch: 35013

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34851

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U	0.101	0.08658		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.202	0.1775		mg/Kg		88	70 - 130	
o-Xylene	<0.00202	U	0.101	0.1042		mg/Kg		103	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34851

Lab Sample ID: 890-2915-A-1-D MSD **Matrix: Solid**

Analysis Batch: 35013

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0996	0.08776		mg/Kg		88	70 - 130	4	35
Toluene	<0.00202	U	0.0996	0.08175		mg/Kg		82	70 - 130	1	35
Ethylbenzene	<0.00202	U	0.0996	0.08872		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1777		mg/Kg		89	70 - 130	0	35
o-Xylene	<0.00202	U	0.0996	0.1037		mg/Kg		104	70 - 130	1	35

MSD MSD

Surrogate	%Recovery Qu	ualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-34941/5-A

Matrix: Solid

Analysis Batch: 35013

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34941

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/20/22 12:51	09/21/22 10:04	1

MB MB

мв мв Result Qualifier

<50.0 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/20/22 12:51	09/21/22 10:04	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/20/22 12:51	09/21/22 10:04	1

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

Lab Sample ID: MB 880-34396/1-A

Matrix: Solid

Analysis Batch: 34334

Gasoline Range Organics

Client Sample ID: Method Blank

Prepared

09/13/22 11:41

Prep Type: Total/NA Prep Batch: 34396

09/13/22 19:23

(GRO)-C6-C10

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50.0

MDL Unit

mg/Kg

Client: Ensolum Job ID: 890-2924-1 Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

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

Lab Sample ID: MB 880-34396/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-34396/2-A

Matrix: Solid

Analysis Batch: 34334

Analysis Batch: 34334

MR MR

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34396

ı		IND	IVID						
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/22 11:41	09/13/22 19:23	1
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/22 11:41	09/13/22 19:23	1

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	105		70 - 130	09/13/22 11:41	09/13/22 19:23	1
Į	o-Terphenyl	110		70 - 130	09/13/22 11:41	09/13/22 19:23	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34396

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 951.8 mg/Kg 95 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 917.8 70 - 130 mg/Kg 92 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	133	S1+	70 - 130			
o-Terphenyl	133	S1+	70 - 130			

Lab Sample ID: LCSD 880-34396/3-A

Matrix: Solid

Analysis Batch: 34334

Client	Sample	ו יחו	ah	Control	Sample	Dun

Prep Type: Total/NA

Prep Batch: 34396

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	842.1		mg/Kg		84	70 - 130	12	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	981.9		mg/Kg		98	70 - 130	7	20	
C10-C28)										

	LUSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: 880-19130-A-8-B MS

Matrix: Solid

Analysis Batch: 34334

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34396

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	630.3	F1	mg/Kg		62	70 - 130
Diesel Range Organics (Over	<49.9	U	996	913.7		mg/Kg		92	70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 880-19130-A-8-C MSD

QC Sample Results

Job ID: 890-2924-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34396

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U F1	999	645.9	F1	mg/Kg		63	70 - 130	2	20
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	999	899.8		mg/Kg		90	70 - 130	2	20

C10-C28)

Matrix: Solid

Analysis Batch: 34334

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	83		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34288/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34499

мв мв

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			09/14/22 22:32	1

Lab Sample ID: LCS 880-34288/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 34499

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	241.4	-	mg/Kg		97	90 - 110	

Lab Sample ID: LCSD 880-34288/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34499

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	242.0		mg/Kg		97	90 - 110	0	20	

Lab Sample ID: 880-19037-A-2-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34499

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	29800	F1	12600	54900	F1	ma/Ka	_	200	90 110	

Lab Sample ID: 880-19037-A-2-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Ratch: 34499

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Alialysis Dalcii. 34433											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	29800	F1	12600	53580	F1	mg/Kg		190	90 - 110	2	20

Prep Type: Soluble

QC Association Summary

Client: Ensolum Job ID: 890-2924-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

GC VOA

Prep Batch: 34851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2924-1	BH04	Total/NA	Solid	5035	_
890-2924-2	BH04	Total/NA	Solid	5035	
MB 880-34851/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34851/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34851/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2915-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2915-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 34941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34941/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 35013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2924-1	BH04	Total/NA	Solid	8021B	34851
890-2924-2	BH04	Total/NA	Solid	8021B	34851
MB 880-34851/5-A	Method Blank	Total/NA	Solid	8021B	34851
MB 880-34941/5-A	Method Blank	Total/NA	Solid	8021B	34941
LCS 880-34851/1-A	Lab Control Sample	Total/NA	Solid	8021B	34851
LCSD 880-34851/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34851
890-2915-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	34851
890-2915-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	34851

Analysis Batch: 35147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2924-1	BH04	Total/NA	Solid	Total BTEX	
890-2924-2	BH04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 34334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2924-1	BH04	Total/NA	Solid	8015B NM	34396
890-2924-2	BH04	Total/NA	Solid	8015B NM	34396
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015B NM	34396
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34396
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34396
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015B NM	34396
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34396

Prep Batch: 34396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2924-1	BH04	Total/NA	Solid	8015NM Prep	
890-2924-2	BH04	Total/NA	Solid	8015NM Prep	
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: UCBH WW ROW BOOSTER STATION
Job ID: 890-2924-1
SDG: 03A1987009

GC Semi VOA

Analysis Batch: 34481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2924-1	BH04	Total/NA	Solid	8015 NM	
890-2924-2	BH04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2924-1	BH04	Soluble	Solid	DI Leach	_
890-2924-2	BH04	Soluble	Solid	DI Leach	
MB 880-34288/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34288/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34288/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19037-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-19037-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 34499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2924-1	BH04	Soluble	Solid	300.0	34288
890-2924-2	BH04	Soluble	Solid	300.0	34288
MB 880-34288/1-A	Method Blank	Soluble	Solid	300.0	34288
LCS 880-34288/2-A	Lab Control Sample	Soluble	Solid	300.0	34288
LCSD 880-34288/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34288
880-19037-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	34288
880-19037-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34288

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Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

Lab Sample ID: 890-2924-1

Job ID: 890-2924-1

Matrix: Solid

Client Sample ID: BH04 Date Collected: 09/08/22 13:45 Date Received: 09/09/22 15:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34851	09/19/22 14:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35013	09/22/22 04:11	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35147	09/22/22 09:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34481	09/14/22 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34396	09/13/22 11:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/14/22 01:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34288	09/12/22 11:50	KS	EET MID
Soluble	Analysis	300.0		5			34499	09/15/22 00:48	CH	EET MID

Client Sample ID: BH04 Lab Sample ID: 890-2924-2 Matrix: Solid

Date Collected: 09/08/22 14:00 Date Received: 09/09/22 15:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	34851	09/19/22 14:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35013	09/22/22 04:32	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35147	09/22/22 09:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34481	09/14/22 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34396	09/13/22 11:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/14/22 02:09	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34288	09/12/22 11:50	KS	EET MID
Soluble	Analysis	300.0		5			34499	09/15/22 00:53	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2924-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

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 w
the agency does not of	• '	,	od by the governing datherity. The list his	ay molade analytes for w
the agency does not of Analysis Method	• '	Matrix	Analyte	ay morade analytes for w
9 ,	fer certification.	•	, , ,	

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Method Summary

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2924-1 SDG: 03A1987009

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

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Sample Summary

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2924-1

SDG: 03A1987009

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2924-1	BH04	Solid	09/08/22 13:45	09/09/22 15:05	0.5
890-2924-2	BH04	Solid	09/08/22 14:00	09/09/22 15:05	1

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Xenco

Environment Testing

Phone:

9898540852 Dallas, TX 75220

Email: jim.raley@dvn.com

City, State ZIP:

Turn Around

Rush 5TAT

Code

ANALYSIS REQUEST

Deliverables: EDD

ADaPT 🗆

Other:

None: NO

DI Water: H₂O

MeOH: Me

Preservative Codes

UCBH WW ROW BOOSTER STATION 03A1987009

City, State ZIP:

Company Name: Project Manager:

Ensolum, LLC.

Ben Belill

2351 W Northwest Hwy Suite 1203A

Address:

5315 Buena Vista Dr. Carlsbad, NM 88220

Devon Energy Corporation

Bill to: (if different) Company Name:

Jim Raley

Project Location: Project Number: Project Name:

Due Date: ✓ Routine

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Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-333 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

4	Work Order No:			1	
	www.xenco.com ² ag	⊃age1	of 1]	
	Work Order Comments	ents			
	Program: UST/PST PRP Brownfields RC Juperfund	RR	Buperfund		
	State of Project:				
	Reporting: Level III Devel III DST/UST DRRP DLevel IV	RRP	Level IV		

Rev. 2020.2	Revised Date: 08/25/2020 Rev. 2020.2									S
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ne	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Time	Date/Time	е)	Received by: (Signature)	Received	nature)	Relinquished by: (Signature)
		ard terms and conditions stances beyond the control unless previously negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	o Eurofins Xenco, or expenses incu d to Eurofins Xenc	for any losses	hase order from cl any responsibility e of \$5 for each sa	itutes a valid purc shall not assume roject and a charg	of samples const t of samples and applied to each p	nt and relinquishment a liable only for the cou narge of \$85.00 will be	Notice: Signature of this docume of service. Eurofins Xenco will b of Eurofins Xenco. A minimum c
	/7470 /7471	TI U Hg: 1631/245.1/7470/7471	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	As Ba Be Co	CRA Sb	/ SPLP 6010: 8RC	TCLP / SF	red	tal(s) to be analy	Circle Method(s) and Metal(s) to be analyzed
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0	Incident ID:			×	×	5' Grab/	13:45 0.5	9/8/2022	S	BH04
nts	Sample Comments			TPH -	C # of of BTEX	Depth Grab/	Time D	Date Sampled	on Matrix	Sample Identification
\ \frac{1}{C}	NaUH+AScorbic Acid: SAPC	ZaC I			EP/	4.0		Corrected Temperature:		Total Containers:
<u> </u>	Zn Acetate+NaOH: Zn	Zn Ace		-	A MI	F. 3	Reading:	Temperature Reading:	Yes No NIA	Sample Custody Seals:
	Na ₂ S ₂ O ₃ : NaSO ₃	Na ₂ S ₂	690-2924 Chain of Custody	-		6.0	actor:	Correction Factor:	Yes No (N/A	Cooler Custody Seals:
	NaHSO ₄ : NABIS	NaHS				HOOMIN	r ID:	Thermometer ID:	√es) No	Samples Received Intact:
	#: H	H ₃ PO ₄ : HP			nete 8021	Yes No	Wet Ice:	(Yes No	Temp Blank:	SAMPLE RECEIPT
Na	: H ₂ NaOH: Na	H ₂ S0 ₄ : H ₂			7	9d by 4:30pm	the lab, if received by 4:30pm			PO#:
IN		HCLHC		0.0		y received by	TAT starts the day received by		Sanju Khatri	Sampler's Name:
. Me	<u>v</u>	Cool: Cool	_			5TAT	Due Date:			Project Location:

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2924-1 SDG Number: 03A1987009

Login Number: 2924 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Appropriate sample containers are used.

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Sample bottles are completely filled.

Sample Preservation Verified.

MS/MSDs

<6mm (1/4").

Login Number: 2924

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2924-1

SDG Number: 03A1987009

List Source: Eurofins Midland List Creation: 09/13/22 10:37 AM

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	

True

True

N/A

True

N/A

9

3

4

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7

9

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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: 890-2923-1

Laboratory Sample Delivery Group: 03A1987009

Client Project/Site: UCBH WW ROW BOOSTER STATION

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Devon Team

JURAMER

Authorized for release by 9/22/2022 9:13:00 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

Have a Question?

Ask
The

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Released to Imaging: 11/25/2024 11:37:20/AM

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.

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Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION Laboratory Job ID: 890-2923-1 SDG: 03A1987009

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Definitions/Glossary

Job ID: 890-2923-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

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: UCBH WW ROW BOOSTER STATION

Job ID: 890-2923-1

SDG: 03A1987009

Job ID: 890-2923-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2923-1

Receipt

The samples were received on 9/9/2022 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-34396/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34396 and analytical batch 880-34334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34288 and analytical batch 880-34499 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample ID: BH05

Date Collected: 09/08/22 13:15

Date Received: 09/09/22 15:05

Method: 8021B - Volatile Organic Compounds (GC)

Sample Depth: 1

Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2923-1

SDG: 03A1987009

Lab Sample ID: 890-2923-1

Matrix: Solid

II a	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/22/22 03:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/22/22 03:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/22/22 03:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/19/22 14:33	09/22/22 03:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/22/22 03:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/19/22 14:33	09/22/22 03:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				09/19/22 14:33	09/22/22 03:31	1
1,4-Difluorobenzene (Surr)	85		70 - 130				09/19/22 14:33	09/22/22 03:31	1
Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/22/22 09:55	1
Method: 8015 NM - Diesel Range		O) (GC) Qualifier	DI	MDL	Unit	D	Dranavad	Analyzad	Dil Fac
Analyte Total TPH			49.9 —	MIDL	mg/Kg		Prepared	Analyzed 09/14/22 09:34	Dil Fac
• •			43.3		mg/rtg			09/14/22 09:04	'
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	Result <49.9		RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 09/13/22 11:41	Analyzed 09/14/22 01:05	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U		MDL		<u>D</u>			1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 <49.9	U	49.9	MDL	mg/Kg mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41	09/14/22 01:05 09/14/22 01:05	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	49.9	MDL	mg/Kg	<u>D</u>	09/13/22 11:41	09/14/22 01:05	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9	U U	49.9	MDL	mg/Kg mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41	09/14/22 01:05 09/14/22 01:05	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 <49.9	U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41	09/14/22 01:05 09/14/22 01:05 09/14/22 01:05	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 <49.9 <49.9 %Recovery	U U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41 Prepared	09/14/22 01:05 09/14/22 01:05 09/14/22 01:05 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 <49.9 <#Recovery 96 97	U U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg	<u> </u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41 Prepared 09/13/22 11:41	09/14/22 01:05 09/14/22 01:05 09/14/22 01:05 Analyzed 09/14/22 01:05	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 <49.9 **Recovery 96 97 omatography -	U U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41 Prepared 09/13/22 11:41	09/14/22 01:05 09/14/22 01:05 09/14/22 01:05 Analyzed 09/14/22 01:05	Dil Fac

Client Sample ID: BH05 Lab Sample ID: 890-2923-2

Matrix: Solid

Sample Depth: 2

Date Collected: 09/08/22 13:30

Date Received: 09/09/22 15:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/19/22 14:33	09/22/22 03:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/19/22 14:33	09/22/22 03:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/19/22 14:33	09/22/22 03:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/19/22 14:33	09/22/22 03:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/19/22 14:33	09/22/22 03:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/19/22 14:33	09/22/22 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/19/22 14:33	09/22/22 03:51	1

Date Collected: 09/08/22 13:30

Date Received: 09/09/22 15:05

Client Sample Results

Client: Ensolum Job ID: 890-2923-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Client Sample ID: BH05

Result Qualifier

381

Lab Sample ID: 890-2923-2

Matrix: Solid

Sample Depth: 2

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	73		70 - 130				09/19/22 14:33	09/22/22 03:51	1
Method: Total BTEX - Total BTE)	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	_	mg/Kg			09/22/22 09:55	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/14/22 09:34	1
	no Organice (D	SO) (GC)							
•	na Omnanica (Di	20) (00)							
Method: 8015B NM - Diesel Ranç Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U	49.8	MDL	mg/Kg	<u>D</u>	09/13/22 11:41	09/14/22 01:26	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result	Qualifier U		MDL		<u>D</u>	<u>.</u>		Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U	49.8	MDL	mg/Kg	<u>D</u>	09/13/22 11:41	09/14/22 01:26	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	Qualifier U U U	49.8	MDL	mg/Kg	<u>D</u>	09/13/22 11:41	09/14/22 01:26 09/14/22 01:26	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8 <49.8	Qualifier U U U	49.8 49.8 49.8	MDL	mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41	09/14/22 01:26 09/14/22 01:26 09/14/22 01:26	

4.97

MDL Unit

mg/Kg

Prepared

Analyzed

09/15/22 00:44

Dil Fac

Surrogate Summary

Job ID: 890-2923-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2915-A-1-C MS	Matrix Spike	115	109	
890-2915-A-1-D MSD	Matrix Spike Duplicate	117	102	
890-2923-1	BH05	117	85	
890-2923-2	BH05	107	73	
LCS 880-34851/1-A	Lab Control Sample	114	106	
LCSD 880-34851/2-A	Lab Control Sample Dup	115	108	
MB 880-34851/5-A	Method Blank	88	77	
MB 880-34941/5-A	Method Blank	100	93	
Surrogate Legend				
BFB = 4-Bromofluorobenzene	e (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19130-A-8-B MS	Matrix Spike	97	86	
880-19130-A-8-C MSD	Matrix Spike Duplicate	95	83	
890-2923-1	BH05	96	97	
390-2923-2	BH05	101	104	
CS 880-34396/2-A	Lab Control Sample	133 S1+	133 S1+	
LCSD 880-34396/3-A	Lab Control Sample Dup	130	128	
MB 880-34396/1-A	Method Blank	105	110	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2923-1 Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34851/5-A

Lab Sample ID: LCS 880-34851/1-A

Matrix: Solid

Analysis Batch: 35013

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34851

ı		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/21/22 20:40	1
	Toluene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/21/22 20:40	1
I	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/21/22 20:40	1
I	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/19/22 14:33	09/21/22 20:40	1
I	o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/21/22 20:40	1
	Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/19/22 14:33	09/21/22 20:40	1
ı										

MB MB

MD MD

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88	70 - 130	09/19/22 14:33	09/21/22 20:40	1
1,4-Difluorobenzene (Surr)	77	70 - 130	09/19/22 14:33	09/21/22 20:40	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34851

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09662 mg/Kg 97 70 - 130 Toluene 0.100 0.08888 mg/Kg 89 70 - 130 0.100 0.09395 Ethylbenzene mg/Kg 94 70 - 130 0.200 0.1964 98 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 70 - 130 o-Xylene 0.1106 mg/Kg 111

LCS LCS

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-34851/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

Analysis Batch: 35013

Analysis Batch: 35013

Prep Type: Total/NA Prep Batch: 34851

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.09096 mg/Kg 91 70 - 130 6 35 Toluene 0.100 0.08531 mg/Kg 85 70 - 130 35 Ethylbenzene 0.100 0.08835 mg/Kg 88 70 - 130 6 35 0.200 m-Xylene & p-Xylene 0.1845 mg/Kg 92 70 - 130 35 0.100 0.1080 o-Xylene mg/Kg 108 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-2915-A-1-C MS

Matrix: Solid

Analysis Batch: 35013

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

Prep Batch: 34851

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.101	0.09155		mg/Kg		91	70 - 130	
Toluene	<0.00202	U	0.101	0.08263		mg/Kg		82	70 - 130	

Eurofins Carlsbad

QC Sample Results

Client: Ensolum Job ID: 890-2923-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

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

Analysis Batch: 35013

Lab Sample ID: 890-2915-A-1-C MS **Matrix: Solid**

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Drop Patch: 24954

	Sample	Sample	Бріке	IVIS	IVIS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00202	U	0.101	0.08658		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.202	0.1775		mg/Kg		88	70 - 130
o-Xylene	<0.00202	U	0.101	0.1042		mg/Kg		103	70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34851

Lab Sample ID: 890-2915-A-1-D MSD **Matrix: Solid**

Analysis Batch: 35013

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0996	0.08776		mg/Kg		88	70 - 130	4	35
Toluene	<0.00202	U	0.0996	0.08175		mg/Kg		82	70 - 130	1	35
Ethylbenzene	<0.00202	U	0.0996	0.08872		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1777		mg/Kg		89	70 - 130	0	35
o-Xylene	<0.00202	U	0.0996	0.1037		mg/Kg		104	70 - 130	1	35

MSD MSD

Surrogate	%Recovery Qu	alifier Limits
4-Bromofluorobenzene (Surr)	117	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: MB 880-34941/5-A

Matrix: Solid

Analysis Batch: 35013

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

Prep Batch: 34941

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/20/22 12:51	09/21/22 10:04	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/20/22 12:51	09/21/22 10:04	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/20/22 12:51	09/21/22 10:04	1

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

Lab Sample ID: MB 880-34396/1-A

Matrix: Solid

Analysis Batch: 34334

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 34396

мв мв Result Qualifier MDL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 09/13/22 11:41 09/13/22 19:23

(GRO)-C6-C10

Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2923-1 SDG: 03A1987009

Prep Type: Total/NA

Prep Batch: 34396

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

70 - 130

Client Sample ID: Lab Control Sample Dup

92

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

Lab Sample ID: MB 880-34396/1-A **Matrix: Solid**

Analysis Batch: 34334

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/13/22 19:23	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	П	50.0		mg/Kg		09/13/22 11:41	09/13/22 19:23	1
On Hange Organies (Over 020-000)	-00.0	O	00.0		mg/rtg		03/10/22 11.41	03/10/22 13.20	

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	105		70 - 130	09/13/22 11:41	09/13/22 19:23	1
Į	o-Terphenyl	110		70 - 130	09/13/22 11:41	09/13/22 19:23	1

Lab Sample ID: LCS 880-34396/2-A

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 34334 Prep Batch: 34396 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 951.8 95 70 - 130 mg/Kg

917.8

mg/Kg

1000

(GRO)-C6-C10 Diesel Range Organics (Over

C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 133 S1+ 70 - 130 o-Terphenyl 133 S1+ 70 - 130

Lab Sample ID: LCSD 880-34396/3-A

Matrix: Solid

Analysis Batch: 34334							Prep Batch:				
	Spike	LCSD	LCSD				%Rec		RPD		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Gasoline Range Organics	1000	842.1		mg/Kg		84	70 - 130	12	20		
(GRO)-C6-C10											
Diesel Range Organics (Over	1000	981.9		mg/Kg		98	70 - 130	7	20		

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 130 70 - 130 o-Terphenyl 128 70 - 130

Lab Sample ID: 880-19130-A-8-B MS

Matrix: Solid

C10-C28)

Analysis Batch: 34334

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 34396

Prep Type: Total/NA

Spike MS MS %Rec Sample Sample Result Qualifier Added Result Qualifier Unit %Rec Limits Analyte <49.9 U F1 996 630.3 F1 70 - 130 Gasoline Range Organics 62 mg/Kg (GRO)-C6-C10 996 913.7 Diesel Range Organics (Over <49.9 U mg/Kg 92 70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	86		70 - 130

Job ID: 890-2923-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

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

Lab Sample ID: 880-19130-A-8-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 34334 Prep Type: Total/NA Prep Batch: 34396

Sample Sample Spike MSD MSD RPD Result Qualifier Limit Analyte Added Result Qualifier Unit %Rec Limits RPD Gasoline Range Organics <49.9 UF1 999 645.9 F1 mg/Kg 63 70 - 130 2 20 (GRO)-C6-C10 999 Diesel Range Organics (Over <49.9 U 8998 mg/Kg 90 70 - 130 2

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	83		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34288/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34499

мв мв

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			09/14/22 22:32	1

Lab Sample ID: LCS 880-34288/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 34499

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	241.4	-	mg/Kg		97	90 - 110	

Lab Sample ID: LCSD 880-34288/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34499

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	2/12 0		ma/Ka		07	90 110		20	

Lab Sample ID: 880-19037-A-2-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34499

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	29800	F1	12600	54900	F1	ma/Ka		200	90 110	

Lab Sample ID: 880-19037-A-2-E MSD

Matrix: Solid Prep Type: Soluble

Analysis Batch: 34499

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	29800	F1	12600	53580	F1	mg/Kg		190	90 - 110	2	20

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Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-2923-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2913-A-1-C MS

Client Sample ID: Matrix Spike
Matrix: Solid

Prep Type: Soluble

Matrix: Solid Analysis Batch: 34499

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Chloride 22.1 250 276.5 mg/Kg 102 90 - 110

Lab Sample ID: 890-2913-A-1-D MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 34499

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 22.1 250 277.5 mg/Kg 102 90 - 110 0 20

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QC Association Summary

Client: Ensolum Job ID: 890-2923-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

GC VOA

Prep Batch: 34851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2923-1	BH05	Total/NA	Solid	5035	
890-2923-2	BH05	Total/NA	Solid	5035	
MB 880-34851/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34851/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34851/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2915-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2915-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 34941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34941/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 35013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2923-1	BH05	Total/NA	Solid	8021B	34851
890-2923-2	BH05	Total/NA	Solid	8021B	34851
MB 880-34851/5-A	Method Blank	Total/NA	Solid	8021B	34851
MB 880-34941/5-A	Method Blank	Total/NA	Solid	8021B	34941
LCS 880-34851/1-A	Lab Control Sample	Total/NA	Solid	8021B	34851
LCSD 880-34851/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34851
890-2915-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	34851
890-2915-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	34851

Analysis Batch: 35146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2923-1	BH05	Total/NA	Solid	Total BTEX	
890-2923-2	BH05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 34334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2923-1	BH05	Total/NA	Solid	8015B NM	34396
890-2923-2	BH05	Total/NA	Solid	8015B NM	34396
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015B NM	34396
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34396
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34396
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015B NM	34396
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34396

Prep Batch: 34396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2923-1	BH05	Total/NA	Solid	8015NM Prep	
890-2923-2	BH05	Total/NA	Solid	8015NM Prep	
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: UCBH WW ROW BOOSTER STATION
Job ID: 890-2923-1
SDG: 03A1987009

GC Semi VOA

Analysis Batch: 34480

Lab Sa	mple ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-29	23-1	BH05	Total/NA	Solid	8015 NM	
890-29	23-2	BH05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2923-1	BH05	Soluble	Solid	DI Leach	_
890-2923-2	BH05	Soluble	Solid	DI Leach	
MB 880-34288/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34288/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34288/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19037-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-19037-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2913-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2913-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 34499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2923-1	BH05	Soluble	Solid	300.0	34288
890-2923-2	BH05	Soluble	Solid	300.0	34288
MB 880-34288/1-A	Method Blank	Soluble	Solid	300.0	34288
LCS 880-34288/2-A	Lab Control Sample	Soluble	Solid	300.0	34288
LCSD 880-34288/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34288
880-19037-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	34288
880-19037-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34288
890-2913-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	34288
890-2913-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34288

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Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2923-1 SDG: 03A1987009

Client Sample ID: BH05 Lab Sample ID: 890-2923-1 Date Collected: 09/08/22 13:15

Matrix: Solid

Date Received: 09/09/22 15:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34851	09/19/22 14:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35013	09/22/22 03:31	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35146	09/22/22 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34480	09/14/22 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34396	09/13/22 11:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/14/22 01:05	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34288	09/12/22 11:50	KS	EET MID
Soluble	Analysis	300.0		5			34499	09/15/22 00:39	CH	EET MID

Client Sample ID: BH05 Lab Sample ID: 890-2923-2

Date Collected: 09/08/22 13:30 Matrix: Solid

Date Received: 09/09/22 15:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34851	09/19/22 14:33	EL	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	35013	09/22/22 03:51	MR	EET MIC
Total/NA	Analysis	Total BTEX		1			35146	09/22/22 09:55	AJ	EET MIC
Total/NA	Analysis	8015 NM		1			34480	09/14/22 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34396	09/13/22 11:41	DM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/14/22 01:26	SM	EET MIC
Soluble	Leach	DI Leach			5.03 g	50 mL	34288	09/12/22 11:50	KS	EET MIC
Soluble	Analysis	300.0		1			34499	09/15/22 00:44	CH	EET MID

Laboratory References:

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

Released to Imaging: 11/25/2024 11:37420/AM

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2923-1 Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

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 the agency does not of	' '	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes f
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2923-1 SDG: 03A1987009

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

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Sample Summary

Collected

09/08/22 13:15

09/08/22 13:30

Received

09/09/22 15:05

09/09/22 15:05 2

Matrix

Solid

Solid

Client: Ensolum

Lab Sample ID

890-2923-1

890-2923-2

Project/Site: UCBH WW ROW BOOSTER STATION

Client Sample ID

BH05

BH05

Job ID: 890-2923-1

SDG: 03A1987009

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Depth

Relinquished by: (Signature)

Received by: (Signature)

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Revised Date: 08/25/2020 Rev. 2020.2

eurofins :

Xenco

Environment Testing

City, State ZIP:

Dallas, TX 75220

2351 W Northwest Hwy Suite 1203A

Address:

Company Name: Bill to: (if different)

Jim Raley

City, State ZIP:

Carlsbad, NM 88220 5315 Buena Vista Dr. Devon Energy Corporation

Deliverables: EDD

ADaPT 🗆

Other:

☐RRP

☐ Level IV

Address:

Project Manager:

Company Name:

Ensolum, LLC. Ben Belill

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Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) EL Paso, TX (915) 585-3443, Lubbock, TX (806) 7 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 9 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

509-3334	Work Order No:			1
94-1296				
88-3199				
	www.xenco.com ² ag	ge1	Page 1 of 1	
	Work Order Comments	ents		
	Program: UST/PST PRP Brownfields RC Superfund	₽RC	□superfund	
	State of Project:			
	Reporting: Level II	□RRP	Level IV	

Phone: 98	9898540852		Email:	Email: jim.raley@dvn.com	n.com									Deliver ables.	Notes				1 3	 -			
Project Name: UC	UCBH WW ROW BOOSTER STATION	R STATION	Turn	Turn Around							ANALY	SIS F	SIS REQUEST	ST						 	Pres	serva	Preservative Codes
Ä	03A1987009		✓ Routine	Rush	Pres. Code				_	<u>_</u>			_	L						N S	None: NO	Ī	DI Water: H ₂ O
Project Location:			Due Date:	5TAT																င္ပ	Cool: Cool	_	МеОН: Ме
Sampler's Name:	Sanju Khatri		TAT starts the	TAT starts the day received by	<u> </u>			0.0		L	L	_	L		L		Ī	1	Ť	H	HCL: HC		HNC ₃ : HN
PO#:			the lab, if rece	the lab, if received by 4:30pm	<u> </u>	В	/D	300							_					H ₂ (H ₂ SU ₄ : H ₂		NaCH: Na
SAMPLE RECEIPT	Temp Blank:	ON (SA)	Wet Ice:	(Yes) No	nete	3021	15M	HOD												±3,	H ₃ PO ₄ : HP	ט	
Samples Received Intact:	tt (Yeg) No	Thermometer ID:	r ID:	TUMO D	iran	OD 8	D 80	AETI												Na	NaHSO ₄ : NABIS	NABIS	· on
Cooler Custody Seals:	Yes No NA	WA Correction Factor:	actor:	-0.a	Pa	TH	НО	A N												Na	Na ₂ S ₂ O ₃ : NaSO ₃	Nasc	3
Sample Custody Seals:	Yes No NA	Temperature Reading:	Reading:	니 ·)		ME	MET	- EF		١٣	890-2923 Chain of Custody	23 Cha	in of C	ustod	V	1987				Zn	Acetat	e+Na(Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	emperature:	4.0		EP/	PA	RIDE		_	-					į				Za	A+HC	corbic	NaOH+Ascorbic Acid: SAPC
Sample Identification	cation Matrix	Date Sampled	Time Sampled	Depth Grab/	# of Cont	BTEX -	TPH - E	CHLOR													San	nple (Sample Comments
ВН05	S	9/8/2022	13:15	1' Grab/	0/ 1	×	×	×				L	<u> </u>	L	L			Γ	T		2	Incid	Incident ID:
ВН05	S	9/8/2022	13:30	2' Grab/	2	×	×	×				_	_						T	t	=	6	NAD 1000 100000
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Total 200.7 / 6010	200.8 / 6020:		8RCRA 13	13PPM Texa	Texas 11 Al Sb	dS N	As Ba	Ве В	ଥ	Ca Cr Co Cu	00	H	Fe Pb Mg Mn Mo Ni K	Mn	<u>×</u>	Z.	Se A	g Si	O ₂ Na	Sr	Se Ag SiO ₂ Na Sr Tl Sn U V Zn	<u></u>	/ Zn
Circle Method(s) and Metal(s) to be analyzed	Metal(s) to be analyz	ed	TCLP /	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag	8RCR/	A Sb	As Be	Be (Cr Cr	င္ပ	РЬ	Mn M	o <u>Z</u>	Se A	II U	٦		Нg:	1631	1245	Hg: 1631 / 245.1 / 7470 / 7471	170 /	7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcon of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such	ument and relinquishment c	f samples const	itutes a valid pu	urchase order frome any responsi	m client c	ompany ny losse	to Eurof	ins Xenc	o, its affil urred by	llates and the clien	d subcor	itractors. It assigns standard terms and conditions losses are due to circumstances beyond the control	. It assi	gns sta	ndard t	erms a es beyo	nd conc	litions					
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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2923-1 SDG Number: 03A1987009

Login Number: 2923 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2923-1 SDG Number: 03A1987009

Login Number: 2923
List Source: Eurofins Midland
List Number: 2
List Creation: 09/13/22 10:37 AM

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 <6mm (1/4").	N/A	

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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: 890-2922-1

Laboratory Sample Delivery Group: 03A1987009

Client Project/Site: UCBH WW ROW BOOSTER STATION

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Devon Team

RAMER

Authorized for release by: 9/22/2022 9:13:01 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Have a Question?

EOL

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Review your project results through

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 11/25/2024 11:37:20/AM

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

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

Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION Laboratory Job ID: 890-2922-1 SDG: 03A1987009

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Definitions/Glossary

Job ID: 890-2922-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Indicates the analyte was analyzed for but not detected.

Glossary

LOQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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) Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE)

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

Limit of Quantitation (DoD/DOE)

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

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 **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2922-1

SDG: 03A1987009

Job ID: 890-2922-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2922-1

Receipt

The samples were received on 9/9/2022 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-34396/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34396 and analytical batch 880-34334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum Job ID: 890-2922-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Client Sample ID: BH06

Lab Sample ID: 890-2922-1

Date Collected: 09/08/22 12:30 Matrix: Solid
Date Received: 09/09/22 15:05

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/22/22 02:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/22/22 02:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/22/22 02:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/19/22 14:33	09/22/22 02:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/22/22 02:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/19/22 14:33	09/22/22 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				09/19/22 14:33	09/22/22 02:50	1
1,4-Difluorobenzene (Surr)	83		70 - 130				09/19/22 14:33	09/22/22 02:50	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/22/22 09:55	
Total TPH	<50.0	U	50.0		mg/Kg			09/14/22 09:34	
· •									
Method: 8015B NM - Diesel Rang									
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared 09/13/22 11:41	Analyzed 09/14/22 00:01	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U		MDL		<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result < 50.0	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	09/13/22 11:41	09/14/22 00:01	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0	Qualifier U U U	50.0	MDL	mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41	09/14/22 00:01 09/14/22 00:01	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0 <50.0 <50.0	Qualifier U U U	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41	09/14/22 00:01 09/14/22 00:01 09/14/22 00:01	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0 <50.0 <50.0 <50.0 <50.0 %Recovery	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41 Prepared	09/14/22 00:01 09/14/22 00:01 09/14/22 00:01 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u> </u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41 Prepared 09/13/22 11:41	09/14/22 00:01 09/14/22 00:01 09/14/22 00:01 Analyzed 09/14/22 00:01	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/22 11:41 09/13/22 11:41 09/13/22 11:41 Prepared 09/13/22 11:41	09/14/22 00:01 09/14/22 00:01 09/14/22 00:01 Analyzed 09/14/22 00:01	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: BH06 Lab Sample ID: 890-2922-2

Date Collected: 09/08/22 12:45 Date Received: 09/09/22 15:05

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/19/22 14:33	09/22/22 03:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/19/22 14:33	09/22/22 03:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/19/22 14:33	09/22/22 03:10	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/19/22 14:33	09/22/22 03:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/19/22 14:33	09/22/22 03:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/19/22 14:33	09/22/22 03:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/19/22 14:33	09/22/22 03:10	

Eurofins Carlsbad

Matrix: Solid

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Matrix: Solid

Lab Sample ID: 890-2922-2

09/15/22 00:34

Client Sample Results

Client: Ensolum Job ID: 890-2922-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Client Sample ID: BH06

17.0

Date Collected: 09/08/22 12:45 Date Received: 09/09/22 15:05

Sample Depth: 1

Chloride

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130				09/19/22 14:33	09/22/22 03:10	1
Method: Total BTEX - Total BTE	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/22/22 09:55	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/14/22 09:34	1
Method: 8015B NM - Diesel Rang	ge Organics (DI	RO) (GC)							
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		09/13/22 11:41	09/14/22 00:22	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		09/13/22 11:41	09/14/22 00:22	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 11:41	09/14/22 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				09/13/22 11:41	09/14/22 00:22	1
	106		70 - 130				09/13/22 11:41	09/14/22 00:22	

4.95

mg/Kg

Surrogate Summary

Client: Ensolum Job ID: 890-2922-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2915-A-1-C MS	Matrix Spike	115	109	
890-2915-A-1-D MSD	Matrix Spike Duplicate	117	102	
890-2922-1	BH06	116	83	
890-2922-2	BH06	117	85	
LCS 880-34851/1-A	Lab Control Sample	114	106	
LCSD 880-34851/2-A	Lab Control Sample Dup	115	108	
MB 880-34851/5-A	Method Blank	88	77	
MB 880-34941/5-A	Method Blank	100	93	
Surrogate Legend				
BFB = 4-Bromofluorobei	nzene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19130-A-8-B MS	Matrix Spike	97	86	
880-19130-A-8-C MSD	Matrix Spike Duplicate	95	83	
890-2922-1	BH06	108	110	
890-2922-2	BH06	104	106	
_CS 880-34396/2-A	Lab Control Sample	133 S1+	133 S1+	
LCSD 880-34396/3-A	Lab Control Sample Dup	130	128	
MB 880-34396/1-A	Method Blank	105	110	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Released to Imaging: 11/25/2024/11/37/20/AM Page 7 of 20 9/22

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QC Sample Results

Client: Ensolum Job ID: 890-2922-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34851/5-A

Matrix: Solid

Analysis Batch: 35013

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34851

1

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/21/22 20:40	•
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/21/22 20:40	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/21/22 20:40	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/19/22 14:33	09/21/22 20:40	
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:33	09/21/22 20:40	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/19/22 14:33	09/21/22 20:40	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	09/19/22 14:33	09/21/22 20:40	1
1,4-Difluorobenzene (Surr)	77		70 - 130	09/19/22 14:33	09/21/22 20:40	1

Lab Sample ID: LCS 880-34851/1-A

Matrix: Solid

Analysis Batch: 35013

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34851

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09662		mg/Kg		97	70 - 130	
Toluene	0.100	0.08888		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09395		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1964		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.1106		mg/Kg		111	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-34851/2-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 35013

Client Sample ID: Lab Control Sample Dup

108

Prep Type: Total/NA Prep Batch: 34851

LCSD LCSD RPD Spike %Rec Added Result Qualifier Unit %Rec Limits Limit 0.100 0.09096 mg/Kg 91 70 - 130 6 35 0.100 0.08531 mg/Kg 85 70 - 130 35 0.100 0.08835 mg/Kg 88 70 - 130 6 35 0.200 0.1845 mg/Kg 92 70 - 130 35

mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1.4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-2915-A-1-C MS

Matrix: Solid

Analysis Batch: 35013

Client Sample ID: Matrix Spike

70 - 130

Prep Type: Total/NA

35

Prep Batch: 34851

MS MS Sample Sample Spike %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits <0.00202 U 0.101 0.09155 91 70 - 130 Benzene mg/Kg Toluene <0.00202 U 0.101 0.08263 mg/Kg 82 70 - 130

0.100

0.1080

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Page 8 of 20

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34851

QC Sample Results

Job ID: 890-2922-1 Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

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

Lab Sample ID: 890-2915-A-1-C MS

Matrix: Solid

Analysis Batch: 35013

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U	0.101	0.08658		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.202	0.1775		mg/Kg		88	70 - 130	
o-Xylene	<0.00202	U	0.101	0.1042		mg/Kg		103	70 - 130	
	MC	МС								

Surrogate	%Recovery Qu	ıalifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-2915-A-1-D MSD

Matrix Analys

	0	0 !!	MOD MOD	0/ D DDD
sis Batch: 35013				Prep Batch: 34851
x: Solid				Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec %Rec RPD Limit Analyte Result Qualifier Added Result Qualifier Unit Limits Benzene <0.00202 U 0.0996 0.08776 mg/Kg 88 70 - 130 4 35 82 Toluene <0.00202 0.0996 0.08175 mg/Kg 70 - 130 35 Ethylbenzene <0.00202 0.0996 0.08872 mg/Kg 89 70 - 130 2 35 U 0.199 89 70 - 130 35 m-Xylene & p-Xylene <0.00403 U 0.1777 mq/Kq 0 0.0996 <0.00202 U 0.1037 104 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-34941/5-A

Matrix: Solid

Analysis Batch: 35013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34941

MB MB Result Qualifier MDL Unit Prepared Dil Fac Analyte RL Analyzed Benzene <0.00200 U 0.00200 mg/Kg 09/20/22 12:51 09/21/22 10:04 Toluene <0.00200 U 0.00200 mg/Kg 09/20/22 12:51 09/21/22 10:04 Ethylbenzene <0.00200 U 0.00200 mg/Kg 09/20/22 12:51 09/21/22 10:04 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 09/20/22 12:51 09/21/22 10:04 0.00200 09/20/22 12:51 09/21/22 10:04 o-Xylene <0.00200 U mg/Kg 0.00400 09/20/22 12:51 09/21/22 10:04 Xylenes, Total <0.00400 U mg/Kg

	IVIB	IVIB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/20/22 12:51	09/21/22 10:04	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/20/22 12:51	09/21/22 10:04	1

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

Lab Sample ID: MB 880-34396/1-A

Matrix: Solid

Analysis Batch: 34334

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 34396

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed <50.0 U 50.0 09/13/22 11:41 09/13/22 19:23 Gasoline Range Organics mg/Kg (GRO)-C6-C10

Eurofins Carlsbad

Client: Ensolum Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2922-1 SDG: 03A1987009

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

Lab Sample ID: MB 880-34396/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 34334 Prep Batch: 34396 MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/13/22 19:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/13/22 19:23	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				09/13/22 11:41	09/13/22 19:23	1
o-Terphenyl	110		70 - 130				09/13/22 11:41	09/13/22 19:23	1

Lab Sample ID: LCS 880-34396/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 34334 Prep Batch: 34396 LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 951.8 95 70 - 130 mg/Kg (GRO)-C6-C10 1000 917.8 Diesel Range Organics (Over mg/Kg 92 70 - 130C10-C28) LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 133 S1+ 70 - 130 o-Terphenyl 133 S1+ 70 - 130

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 34334** Prep Batch: 34396 Spike LCSD LCSD %Rec **RPD** Added Result Qualifier %Rec Limits RPD Limit Analyte Unit D Gasoline Range Organics 1000 842.1 84 70 - 130 12 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 981.9 mg/Kg 98 70 - 130 7 20 C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: 880-19130-A-8-B MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 34334 Prep Batch: 34396 Spike MS MS %Rec Sample Sample Result Qualifier Added Result Qualifier %Rec Analyte Unit Limits <49.9 U F1 996 630.3 F1 70 - 130 Gasoline Range Organics 62 mg/Kg (GRO)-C6-C10 996 Diesel Range Organics (Over <49.9 U 913.7 mg/Kg 92 70 - 130 C10-C28) MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 97 70 - 130 70 - 130 86 o-Terphenyl

Eurofins Carlsbad

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-34396/3-A

Client: Ensolum Job ID: 890-2922-1 Project/Site: UCBH WW ROW BOOSTER STATION

SDG: 03A1987009

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

95 83

Lab Sample ID: 880-19130-A Matrix: Solid Analysis Batch: 34334	A-8-C MSD					CI	ient S	ample IC	-	oike Dup Type: To Batch:	tal/NA
-	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 F1	999	645.9	F1	mg/Kg		63	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	899.8		mg/Kg		90	70 - 130	2	20
Surrogate	MSD %Recovery	MSD	l imits								

70 - 130

70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-34288/3-A

1-Chlorooctane

Matrix: Solid

o-Terphenyl

Lab Sample ID: MB 880-34288/1-A							Client Sa	mple ID: Metho	d Blank	
Matrix: Solid								Prep Type:	Soluble	
Analysis Batch: 34499										
	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			09/14/22 22:32	1	

Lab Sample ID: LCS 880-34288/2-A Matrix: Solid			Client Sample ID: Lab Control Sample Prep Type: Soluble
Analysis Batch: 34499	0	100 100	0/ D
	Spike	LCS LCS	%Rec

	Opike	L03	LUU				/OIXEC	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	241.4		mg/Kg		97	90 - 110	

Analysis Batch: 34499									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	242.0		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-2913-A-1-C MS	Client Sample ID: Matrix Spike
Matrix: Solid	Prep Type: Soluble

Analysis Batch: 34499										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
011 11				070.5			_	400		

Cilionae	22.1	230	210.0	mg/rtg	102	30 - 110
_						
Lab Sample ID: 890-2913-A-1-I	O MSD			Client	Sample ID	: Matrix Spike Duplicate
Matrix: Solid						Prep Type: Soluble

manna oona										.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.00.0
Analysis Batch: 34499											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	22 1		250	277 5		ma/Ka		102	90 110		20

Eurofins Carlsbad

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

QC Association Summary

Client: Ensolum Job ID: 890-2922-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

GC VOA

Prep Batch: 34851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2922-1	BH06	Total/NA	Solid	5035	
890-2922-2	BH06	Total/NA	Solid	5035	
MB 880-34851/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34851/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34851/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2915-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2915-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 34941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34941/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 35013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2922-1	BH06	Total/NA	Solid	8021B	34851
890-2922-2	BH06	Total/NA	Solid	8021B	34851
MB 880-34851/5-A	Method Blank	Total/NA	Solid	8021B	34851
MB 880-34941/5-A	Method Blank	Total/NA	Solid	8021B	34941
LCS 880-34851/1-A	Lab Control Sample	Total/NA	Solid	8021B	34851
LCSD 880-34851/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34851
890-2915-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	34851
890-2915-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	34851

Analysis Batch: 35145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2922-1	BH06	Total/NA	Solid	Total BTEX	
890-2922-2	BH06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 34334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2922-1	BH06	Total/NA	Solid	8015B NM	34396
890-2922-2	BH06	Total/NA	Solid	8015B NM	34396
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015B NM	34396
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34396
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34396
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015B NM	34396
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34396

Prep Batch: 34396

Released to Imaging: 11/25/2024 11:37420/AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2922-1	BH06	Total/NA	Solid	8015NM Prep	
890-2922-2	BH06	Total/NA	Solid	8015NM Prep	
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum Job ID: 890-2922-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

GC Semi VOA

Analysis Batch: 34479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2922-1	BH06	Total/NA	Solid	8015 NM	
890-2922-2	BH06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2922-1	BH06	Soluble	Solid	DI Leach	
890-2922-2	BH06	Soluble	Solid	DI Leach	
MB 880-34288/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34288/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34288/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2913-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2913-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 34499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2922-1	BH06	Soluble	Solid	300.0	34288
890-2922-2	BH06	Soluble	Solid	300.0	34288
MB 880-34288/1-A	Method Blank	Soluble	Solid	300.0	34288
LCS 880-34288/2-A	Lab Control Sample	Soluble	Solid	300.0	34288
LCSD 880-34288/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34288
890-2913-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	34288
890-2913-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34288

Eurofins Carlsbad

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Client: Ensolum Job ID: 890-2922-1 Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Client Sample ID: BH06 Lab Sample ID: 890-2922-1

Date Collected: 09/08/22 12:30 Matrix: Solid Date Received: 09/09/22 15:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	34851	09/19/22 14:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35013	09/22/22 02:50	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35145	09/22/22 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34479	09/14/22 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34396	09/13/22 11:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/14/22 00:01	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34288	09/12/22 11:50	KS	EET MID
Soluble	Analysis	300.0		1			34499	09/15/22 00:29	CH	EET MID

Client Sample ID: BH06 Lab Sample ID: 890-2922-2 Matrix: Solid

Date Collected: 09/08/22 12:45 Date Received: 09/09/22 15:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	34851	09/19/22 14:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35013	09/22/22 03:10	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35145	09/22/22 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34479	09/14/22 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34396	09/13/22 11:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/14/22 00:22	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34288	09/12/22 11:50	KS	EET MID
Soluble	Analysis	300.0		1			34499	09/15/22 00:34	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2922-1
Project/Site: UCBH WW ROW BOOSTER STATION SDG: 03A1987009

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date		
Texas	NI	ELAP	T104704400-22-24	06-30-23		
The following analytes	are included in this renert hu	it the leberatory is not contiffe	to all booking and committees as all a side of Their Booking.			
the agency does not of		at the laboratory is not certil	ied by the governing authority. This list ma	ay include analytes for v		
,		Matrix	led by the governing authority. This list ma	ay include analytes for v		
the agency does not of	fer certification.	•	, , ,	ay include analytes for v		

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Method Summary

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.

Client: Ensolum

Method

8021B

Total BTEX

8015 NM

8015B NM

8015NM Prep

Protocol References:

Laboratory References:

ASTM = ASTM International

DI Leach

300.0

5035

Project/Site: UCBH WW ROW BOOSTER STATION

Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

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

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 890-2922-1 SDG: 03A1987009

 Protocol
 Laboratory

 SW846
 EET MID

 TAL SOP
 EET MID

 SW846
 EET MID

 SW846
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 MCAWW
 EET MID

EET MID

EET MID

EET MID

SW846

SW846

ASTM

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Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: UCBH WW ROW BOOSTER STATION

Job ID: 890-2922-1

SDG: 03A1987009

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2922-1	BH06	Solid	09/08/22 12:30	09/09/22 15:05	0.5
890-2922-2	BH06	Solid	09/08/22 12:45	09/09/22 15:05	1

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

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ork	
Order	
No:	

Revised Date: 08/25/2020 Rev. 2020.2			6								5
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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	ie	Date/Time		e)	Received by: (Signature)	Received	ture)	by: (Signa	Relinquished by: (Signature)
	terms will be enforced unless previously negotiated.	of Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enfor	Eurofins Xenc	ibmitted to	sample su	je of \$5 for each	roject and a charg	pplied to each p	rge of \$85.00 will be a	minimum chai	of Eurofins Xenco. A
	tandard terms and conditions terms the control	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	rofins Xenco, xpenses incu	npany to Eu losses or e	client con ty for any	hase order from any responsibili	tutes a valid purc shall not assume	f samples const	and relinquishment o	ils document enco will be li	Notice: Signature of the service. Eurofins X
5.1 / 7470 / 7471	Ag TI U Hg: 1631 / 245.1 / 7470 / 7471	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Ba Be Co	Sb As		TCLP / SPLP 6010: 8RCRA	TCLP / SF	ed	Circle Method(s) and Metal(s) to be analyzed	and Meta	Circle Method(s)
TI Sn U V Zn	~ !	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni	As Ba Be B	Sb As I	≥∥	PM Texas 11	8RCRA 13PPM		200.8 / 6020:	Ì	Total 200.7 / 6010
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Cost center: 9030007583											
NAB1805133508			×	×	_	Grab/	12:45 1'	9/8/2022	S	ВН06	В
Incident ID:			×	×	1	5' Grab/	12:30 0.5'	9/8/2022	S	BH06	В
Sample Comments			CHLO	BTEX	# of Cont	Depth Grab/	Time C	Date Sampled	n Matrix	Sample Identification	Sample Ic
NaOH+Ascorbic Acid: SAPC						io	mperature:)	Corrected Temperature:			Total Containers:
Zn Acetate+NaOH: Zn						I.	+	Temperature Reading:	Yes No NA		Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃		890-2922 Chain of Custody			P	2		Correction Factor:	Yes No (N/A		Cooler Custody Seals:
NaHSO ₄ : NABIS	Z				araı	HOOMING	7	Thermometer ID:	(Yeg) No	Intact:	Samples Received Intact:
H ₃ PO ₄ : HP	Į				nete	Yeg No	Wet Ice:	(es) No	Temp Blank:	EIPT	SAMPLE RECEIPT
H ₂ SO ₄ : H ₂ NaOH: Na	H ₂				rs	ed by 4:30pm	the lab, if received by 4:30pm				PO #:
HCL: HC HNO ₃ : HN	II.		0.0			ay received by	TAT starts the day received by		Sanju Khatri		Sampler's Name:
Cool: Cool MeOH: Me	c					5TAT	Due Date:				Project Location:
None: NO DI Water: H ₂ O	2				Code	Rush	☑ Routine [03A1987009		Project Number:
Preservative Codes		ANALYSIS REQUEST				round	Turn Around	R STATION	UCBH WW ROW BOOSTER STATION	исвн у	Project Name:
Other:	Deliverables: EDD	Delive			.com	Email: jim.raley@dvn.com	Email: jir		0852	9898540852	Phone:
T RRP Level IV	Reporting: Level II	Repo	Carlsbad, NM 88220	Carlsbad,		City, State ZIP:	C		Dallas, TX 75220	Dallas,	City, State ZIP:
]			5315 Buena Vista Dr.	5315 Buei		Address:		/ Suite 1203,	2351 W Northwest Hwy Suite 1203A	2351 W	Address:
ds	Program: UST/PST ☐PRP ☐Brownfields		Devon Energy Corporation	Devon En		Company Name:	C		m, LLC.	Ensolum, LLC	Company Name:
nments	Work Order Comments			Jim Raley		Bill to: (if different)	В			Ben Belill	Project Manager:
² age 1 of 1	www.xenco.com	nobe, Niki (ara) 352-1330, Kalisbad, Niki (ara) 300-1138	ooo, Cansoa	010) 352-1	DS, INIVIO	חסנ					
		EL Pasa, TX (915) 585-3443, Lubbock, TX (806) 794-1296	3443, Lubbo	(915) 585-	aso, TX	. E			Xenco		
	Work Order No:	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	40, San Anto	32) 704-54	nd, TX (4	Midla	Buil	Environment lesting	Environ		
	:			,			A	The Table	1		

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2922-1 SDG Number: 03A1987009

Login Number: 2922 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

J 249

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2922-1 SDG Number: 03A1987009

Login Number: 2922 **List Source: Eurofins Midland** List Number: 2

List Creation: 09/13/22 10:37 AM

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	

Page 20 of 20 9/22/2022 Released to Imaging: 11/25/2024 11:37420/AM

<6mm (1/4").

APPENDIX G

Correspondence & Notifications

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



NM OIL CONSERVATION

ARTESIA DISTRICT

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 FEB 19 2018

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 to appropriate District Office in accordance with 19.15.29 NMAC.

PAB 1805 133323 Release Notification and Corrective Action												
NAB180					. (PERAT	OR	5	Initial:	Report		Final Report
			tion / WI	PX Energy 84		Contact: Jar				<u>F</u>		
Address: 53							No: 575-689-759	97			W.T	
Facility Nar	ne: Brushy	Gathering	Facility		I	Facility Typ	e: Produced Wa	ater Gat	thering Fac	ility		
Surface Ow	ner: Feder:	al		Mineral C)wner: F	Federal			API No.			
Surface O W	nor. r cacri								7111110.			
						OF REL	·	T 5 . 0	** . * *			
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/\	West Line		Coun	ity
	25	265	29E								Eddy	у
	•		La	atitude 32.0057	6 Long	gitude -103	.94400 NAD8	3				
				NATI	URE C	F RELE	ASE					
Type of Rele	ase: Produc	ed Water Re	lease				Release: 10 bbls	3	Volume R			
Source of Re	lease: Abov	ve Ground Li	ne			Date and I	Hour of Occurrence	ce	Date and I	lour of D	iscovery	,
1												
Was Immedia	ate Notice C					If YES, To	Whom? Mike Br	ratcher				
		lacktriangle	Yes [] No 🗌 Not R	equired							
By Whom? Jim Raley Was a Watercourse Reached?						Date and Hour: 2/5/2016						
Was a Water	course Reac		1 v K	71 3.7		If YES, Volume Impacting the Watercourse.						
☐ Yes ☒ No												
If a Watercourse was Impacted, Describe Fully.* N/A												
Describe Cau	ise of Proble	em and Reme	dial Actio	n Taken.*								
An above gro	ound poly li	ne that was n	ot is use w	as damaged by a	piece of	heavy equipr	ment, which result	ted in th	e release of	residual p	roduced	water to the
							uids and drain lin .00576, -103.9440				eu sons	were
		p	Р							,		
72 11 4	4.00 . 1	1.01	A					_				
Describe Are				ken.* mples collected to	determi	ne denths of	impacts					
Obviously in	ipacicu son	s were remov	cu anu sai	inpies conceied to	determin	ic deptils of	impacts.					
									1.1		10.CD	
I hereby cert	ify that the i	information g	iven above	e is true and comp	olete to th	ne best of my	knowledge and und perform correct	Inderstai	nd that pursi	uant to NI	иОСD r h may e	rules and
public health	or the envi	ronment. The	e accentan	ce of a C-141 rep	ort by the	e NMOCD m	narked as "Final R	Report" o	loes not reli	eve the op	erator o	f liability
should their	operations h	ave failed to	adequately	y investigate and i	remediate	e contaminat	ion that pose a thr	reat to gr	round water,	, surface v	water, hu	ıman health
				ptance of a C-141	report de	oes not reliev	ve the operator of	respons	ibility for co	mpliance	with any	y other
federal, state	, or local lav	ws and/or reg	uiations.				OIL CON	CEDY	ATION	DIMICI	ONI	
/ / .							OIL CON	<u>SLIC V</u>	AHON	וטואועו	<u>UIN</u>	
An Ka												
1 / /						Approved by	Environmental S	Specialis	it: 🎤 /			
Signature:			•				Signed E	Rv M	Allo B	ger Talathanan g		
Printed Nam	e: Iim Rales	v					~ Louisu L	·	200 <u>0 200</u>	reversales	<u> </u>	
11.11001110111	viii Raic	·					MANI.	0		A.	IIN	
Title: Enviro	nmental Sp	ecialist				Approval Da	ite: 4W	<u> </u>	Expiration 1	Date:	114	
E me!! A.J.	in	alay@s				Canditians	.f Annuarial		i			
E-mail Addr	ess: james.r	aiey@wpxen	ergy.com			Conditions o	$\sum_{v \in V} \nabla v = v$	بملاد	hans	Attache	ed Ar	11.00
Date: 2/	19/2019		Phor	ne: 575-689-7597			See	<u>NTTN</u>	UNEU		ΔK	144USL
	1.01										-	

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/19/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1/200 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 3/19/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Raley, Jim <James.Raley@wpxenergy.com>

Sent: Tuesday, February 20, 2018 6:45 AM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD

Cc: Tucker, Shelly; Blaney, Karolina

Subject: RE: [EXTERNAL] RE: Initial Notification - WPX Brushy Gathering Station

Mike,

The legal should be S25 T26S R29E.

Jim Raley | Environmental Specialist - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | james.raley@wpxenergy.com

WPXENERGY

From: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]

Sent: Monday, February 19, 2018 4:49 PM

To: Raley, Jim <James.Raley@wpxenergy.com>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>

Cc: Tucker, Shelly <stucker@blm.gov>; Blaney, Karolina <Karolina.Blaney@wpxenergy.com>

Subject: [EXTERNAL] RE: Initial Notification - WPX Brushy Gathering Station

CAUTION: This email was sent from an EXTERNAL source. Use caution when clicking links or opening attachments.

Jim - Do have the STR for this site?

Thanks,

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575-748-1283 Ext 108

From: Raley, Jim [mailto:James.Raley@wpxenergy.com]

Sent: Monday, February 19, 2018 4:34 PM

To: Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD < Crystal.Weaver@state.nm.us>

Cc: Tucker, Shelly <stucker@blm.gov>; Blaney, Karolina <Karolina.Blaney@wpxenergy.com>

Subject: RE: Initial Notification - WPX Brushy Gathering Station

Please find attached C-141 for this incident.

Jim Raley | Environmental Specialist - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | james.raley@wpxenergy.com



From: Raley, Jim

Sent: Tuesday, February 06, 2018 10:11 AM

To: Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us >; 'Weaver, Crystal, EMNRD' < Crystal.Weaver@state.nm.us >

Cc: 'Tucker, Shelly' <<u>stucker@blm.gov</u>>; Blaney, Karolina <<u>Karolina.Blaney@wpxenergy.com</u>>

Subject: Initial Notification - WPX Brushy Gathering Station

Good Morning,

This is a follow-up email in regards to a voicemail left for Mike Bratcher giving immediate notification on 2/5/2016 at 8:44 A.M of a release that occurred near our Brushy Booster Station.

An unauthorized release of approx. 10bbls/produced water occurred near our Brushy Draw Booster Station. This release was the result of equipment damage to a produced water transfer line that was being removed. The line had not been fully drained and the damage allowed fluids to impact soils along the State Line Road in an area of approx. 50'x50'. The spill is located at 32.00576,-103.94400 which I show as BLM surface. No water was threatened. The spill was mapped with a Trimble GPS

In giving verbal notification I had indicated that 80 bbls was recovered. Upon further investigation it was discovered that the additional fluids were from draining the damaged gathering line and did not impact soils. A C-141 will be submitted within the next 15 days.

WPX would like permission to remove impacted soils to a depth of 1' within the spill area and collect samples to delineate the vertical extent of the impacts.

Jim Raley | Environmental Specialist - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | james.raley@wpxenergy.com WPXENERGY

Weaver, Crystal, EMNRD

From: Raley, Jim <James.Raley@wpxenergy.com>

Sent: Tuesday, February 6, 2018 10:11 AM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD

Cc: Tucker, Shelly; Blaney, Karolina

Subject: Initial Notification - WPX Brushy Gathering Station

Good Morning,

This is a follow-up email in regards to a voicemail left for Mike Bratcher giving immediate notification on 2/5/2016 at 8:44 A.M of a release that occurred near our Brushy Booster Station.

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Jim Raley | Environmental Specialist - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | james.raley@wpxenergy.com WPXENERGY

<u>District I</u> 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**

QUESTIONS

Action 376289

QUESTIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	376289
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1805133508
Incident Name	NAB1805133508 BRUSHY GATHERING FACILITY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAB1805133323] Brushy Gathering Facility

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Brushy Gathering Facility
Date Release Discovered	02/05/2016
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Vandalism Flow Line - Production Produced Water Released: 10 BBL Recovered: 7 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I
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Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Ea NIM 97505

QUESTIONS, Page 2

Action 376289

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	i Fe, Nivi 6/505
OUESTI	ONS (continued)
Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289 Action Number: 376289 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or

Name: James Raley Title: EHS Professional

Email: jim.raley@dvn.com Date: 08/21/2024

Released to Imaging: 11/25/2024 11:37420/AM

I hereby agree and sign off to the above statement

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

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

QUESTIONS, Page 3

Action 376289

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	376289
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Zero feet, overlying, or within area
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply	or are indicated. This information must be provided to the	ne appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan ap	proval with this submission	Yes
Attach a comprehensive report demonstrat	ing the lateral and vertical extents of soil contamination a	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extent	s of contamination been fully delineated	Yes
Was this release entirely contained	d within a lined containment area	No
Soil Contamination Sampling: (Provi	de the highest observable value for each, in milli	grams per kilograms.)
Chloride ((EPA 300.0 or SM4500 CI B)	3560
TPH (GRO+DRO+MRO) (E	PA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX ((EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	less the site characterization report includes completed e or beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the re	mediation commence	09/08/2022
On what date will (or did) the final :	sampling or liner inspection occur	12/31/2024
On what date will (or was) the rem	ediation complete(d)	12/31/2024
What is the estimated surface area	a (in square feet) that will be reclaimed	200
What is the estimated volume (in c	cubic yards) that will be reclaimed	11
What is the estimated surface area	a (in square feet) that will be remediated	200
What is the estimated volume (in c	ubic yards) that will be remediated	11
These estimated dates and measurements	are recognized to be the best guess or calculation at the	time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remedi	iation measures may have to be minimally adjusted in acc	cordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

<u>District II</u> 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**

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

QUESTIONS, Page 4

Action 376289

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	376289
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 08/21/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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**

QUESTIONS, Page 5

Action 376289

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	376289
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. Requesting a deferral of the remediation closure due date with the approval of this No submission

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Remediation Closure Request

Requesting a remediation closure approval with this submission

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

QUESTIONS, Page 6

Action 376289

QUESTIONS	(continued)
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Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	376289
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

No

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

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

CONDITIONS

Action 376289

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	376289
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	8/22/2024
bhall	Vertical delineation must be completed through excavation and confirmation sampling pursuant to 19.15.29.12 NMAC.	8/22/2024
bhall	Remediation confirmation samples must meet the most stringent remediation closure criteria found on Table I of 19.15.29 NMAC.	8/22/2024
bhall	Confirmation samples must be 5-point composite samples not representative of more than 200 square feet.	8/22/2024
bhall	This area is considered not reasonably needed for production operations or for subsequent drilling operations therefore, it must meet the requirements of 19.15.29.13 NMAC at the time of remediation.	8/22/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	8/22/2024
bhall	OCD will NOT approve the proposed schedule of completing remediation of this site concurrently with the proposed work associated with Incident Numbers nAB1501655607, nAB1504154780, nAB1522341642, nAB1621453181, nAB1633639499, nAPP2230032326, located due west of the site. The proposed workplans for the adjacent releases were denied.	8/22/2024
bhall	Submit a complete remediation closure report through the OCD Permitting website by 11/22/2024.	8/22/2024
bhall	A complete reclamation report can be submitted with the closure report or can be submitted after the closure report is approved.	8/22/2024

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 406024

QUESTIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	406024
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1805133508
Incident Name	NAB1805133508 BRUSHY GATHERING FACILITY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Facility	[fAB1805133323] Brushy Gathering Facility

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Brushy Gathering Facility
Date Release Discovered	02/05/2016
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Vandalism Flow Line - Production Produced Water Released: 10 BBL Recovered: 7 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 406024

QUESTIONS (continued)

Operator:	OGRID: 246289	
WPX Energy Permian, LLC Devon Energy - Regulatory	Action Number:	
Oklahoma City, OK 73102	406024	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.	
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 11/22/2024	

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

QUESTIONS, Page 3

Action 406024

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	406024
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Zero feet, overlying, or within area
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to t	the appropriate district office no later than 90 days after the release discovery date	
Requesting a remediation plan approval with this submission	Yes	
1 11	1 1 2 2	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 CI B)	3760	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	98	
GRO+DRO (EPA SW-846 Method 8015M)	37.8	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	03/01/2025	
On what date will (or did) the final sampling or liner inspection occur	12/31/2025	
On what date will (or was) the remediation complete(d) 12/31/2025		
What is the estimated surface area (in square feet) that will be reclaimed	2000	
What is the estimated volume (in cubic yards) that will be reclaimed	148	
What is the estimated surface area (in square feet) that will be remediated	200	
What is the estimated volume (in cubic yards) that will be remediated 148		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to		

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 406024

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	406024
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
/ reduce contaminants:	
Yes	
Not answered.	
Not answered.	
Yes	
Texas	
R360	
No	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

Name: James Raley Title: EHS Professional I hereby agree and sign off to the above statement Email: jim.raley@dvn.com Date: 11/22/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 406024

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	406024
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6

Action 406024

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	406024
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	403476
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/21/2024
What was the (estimated) number of samples that were to be gathered	24
What was the sampling surface area in square feet	2129

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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

CONDITIONS

Action 406024

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	406024
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	11/25/2024
bhall	Remediation closure/final samples must meet the most stringent closure criteria found on Table I of 19.15.29 NMAC. The excavation may need to advanced further than what is proposed in this plan based on field/confirmation analytical results.	11/25/2024
bhall	This area is considered not reasonably needed for production operations or for subsequent drilling operations therefore, it must meet the requirements of 19.15.29.13 NMAC at the time of remediation.	11/25/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is nonwaste containing; At least one (1) representative 5point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	11/25/2024
bhall	Submit a complete remediation closure and/or reclamation report through the OCD Permitting website by 2/28/2025.	11/25/2024
bhall	A complete reclamation report can be submitted with the closure report or can be submitted after the closure report is approved.	11/25/2024