

Environmental Site Remediation Work Plan

General Information

NMOCD District:	District 2	Incident ID:	nAPP2411739118
Landowner:	Federal	Facility:	fAPP2123053722
Client:	XTO Energy, Inc.	Site Location:	James Ranch Unit DI 1A Battery
Date:	August 3, 2024	Project #:	23E-04616
Client Contact:	Amy Ruth	Phone #:	432.661.0571
Vertex PM:	Sally Carttar	Phone #:	575.361.3561

Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address the produced water release at James Ranch Unit DI 1A Battery. The release occurred due to corrosion of a pipeline and resulted in 15 barrels (bbl) of produced water to be released on the facility pad shown on Figure 1 (Attachment 1). Areas of environmental concern identified and delineated include around the production equipment. Closure criteria have been selected as per New Mexico Administrative Code (NMAC) 19.15.29. The closure criteria for the site are presented below in Table 1.

Table 1. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
< 50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – Total dissolved solids

TPH – Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO),

BTEX - Benzene, toluene, ethylbenzene, and xylenes

Site Assessment/Characterization

Site characterization was started on June 27, 2024, and concluded on June 29, 2024. A total of 16 sample points were established, and 38 samples were collected for field screening. Samples were obtained at two discrete depths for horizontal delineation, and samples at the greatest lateral limits below criteria were submitted to the laboratory for analysis. Vertical limits were not attainable with the tools available due to depth and will be completed at the time of remediation. In total, 36 samples were submitted to Eurofins Environmental Testing, Albuquerque, New Mexico, for analysis. The sample locations are presented on Figure 1 (Attachment 1). Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Table 2 (Attachment 2). Exceedances to reclamation and remediation criteria are identified in the table as bold with grey background. Daily field reports and laboratory data reports are included in Attachments 3 and 4, respectively. All applicable research as it pertains to closure criteria selection is presented in Attachment 5.

Proposed Remedial Activities

Deferral Request

Based on the initial characterization of the impacted area, it was determined that the dimensions of the impacted area extend around production equipment and underneath pipe racks and other associated infrastructure for the facility. Vertex Resource Services Inc. and

Environmental Site Remediation Work Plan

XTO Energy, Inc. would like to request a deferral for the impacted areas in immediate proximity to equipment and infrastructure. As the facility is active, excavation will be halted at 1 foot below ground surface (bgs) adjacent to equipment to preserve the structural integrity of the ground beneath equipment. This deferral is being requested due to safety concerns with operating near the production equipment. Remediation of the release area immediately under or around the production equipment will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed per 19.15.29.13 NMAC. The deferral area and proposed excavations on the pad are included on Figure 2 (Attachment 1).

General

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Field screening and laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. A total of 38 samples were collected for analysis. Soil will be excavated to the extents of the known impacts or in 1 foot increments, whichever is less. Field screening will be utilized to confirm removal of impacted soil below the applicable closure criteria. Excavated soils will be stored on a 30 mil liner prior to disposal at an approved facility. Once excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

nAPP2411739118 (April 9, 2024) – Produced Water Released onto Pad

Exceedances to closure criteria were found at multiple sample points within the release area. The sample locations and proposed excavations are presented on Figures 1 and 2, respectively (Attachment 1). Hand tools will be used to excavate the material in proximity to equipment to 1 foot bgs. Vertical delineation at BH24-02 will be completed with a hand auger once excavation has lowered the ground surface at that location. Heavy equipment will be used to excavate the relatively open area covering the northeast corner of the release to 4 feet bgs. A hydrovac truck may be utilized to identify utility and buried pipelines where necessary, and hand tools will be utilized to remove impacted soil in close proximity to equipment, buried utility and pipelines. Confirmation samples will be collected as per New Mexico Oil Conservation Division guidance and submitted for laboratory analysis of all applicable parameters. The estimated volume to be excavated is approximately **95 cubic yards**. Excavation is planned to be completed within 90 days of approval of this Environmental Site Remediation Work Plan. The completed NMCD C-141 Report for the incident and the approved 90-day extension for characterization and remediation plan are presented in Attachment 6.

Sample Point	Excavation Depth	Remediation Method
BH24-01	1'	Handcrew
BH24-02	1'	Handcrew
BH24-03	1'	Handcrew
BH24-04	1'	Handcrew
BH24-06	1'	Handcrew
BH24-07	1'	Handcrew
BH24-08	1'	Handcrew
BH24-09	4'	Backhoe/Hydrovac/Handcrew
BH24-10	1'	Handcrew
BH24-15	1'	Handcrew
BH24-16	1'	Handcrew



Environmental Site Remediation Work Plan

Should you have any questions or concerns, please do not hesitate to contact Sally Carttar at 575.361.3561 or SCarttar@vertexresource.com.

Lakin Pullman

August 3, 2024

Lakin Pullman, B.Sc.

Date

ENVIRONMENTAL SPECIALIST, REPORTING

Sally Carttar

August 27, 2024

Sally Carttar, BA.

Date

PROJECT MANAGER, REPORT REVIEW

Attachments

- Attachment 1. Characterization Sampling and Proposed Excavation Schematics
- Attachment 2. Initial Characterization Sample Field Screen and Laboratory Results – Depth to Groundwater <50 feet bgs
- Attachment 3. Daily Field Reports with Photographs
- Attachment 4. Laboratory Data Reports with Chain of Custody Forms
- Attachment 5. Closure Criteria Research
- Attachment 6. NMOCD C-141 Report

ATTACHMENT 1



- ◆ Borehole (Prefixed by "BH24-")
 —···· Pipeline (Underground)
 P— Electrical Line (Underground)
 Release Area (~2,123 sq.ft. | 219 ft.)
 Infrastructure



0 5 10 20 ft
 NAD 1983 UTM Zone 13N
 Date: Aug 01/24

Map Center:
 Lat: 32.379834,
 Long: -103.886670



Characterization Sampling Site Schematic James Ranch Unit DI 1A Battery

FIGURE:
 1



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Image from Google Earth Pro, 2023; georeferenced by Vertex Professional Services Ltd. (Vertex), 2024. Site features from GPS by Vertex Professional Services Ltd, 2024.

VERSATILITY. EXPERTISE.



- ◆ Borehole (Prefixed by "BH24-")
- Electrical Line (Underground)
- Pipeline (Underground)
- Deferral Area (~3,360 sq.ft. | 461 ft.)
- Center Proposed Excavation to 1' bgs (~320 sq.ft | 87 ft.)
- North Proposed Excavation to 1' bgs (~102 sq.ft. | 70 ft.)
- South Proposed Excavation to 1' bgs (~93 sq.ft. | 42 ft.)
- West Proposed Excavation to 1' bgs (~578 sq.ft. | 136 ft.)
- Proposed Excavation to 4' bgs (~198 sq.ft. | 56 ft.)



0 5 10 20 ft
NAD 1983 UTM Zone 13N
Date: Aug 01/24

Map Center:
Lat: 32.379936,
Long: -103.886659



Proposed Excavation Schematic James Ranch Unit DI 1A Battery

FIGURE:
2



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Image from Google Earth Pro, 2023; georeferenced by Vertex Professional Services Ltd. (Vertex), 2024. Site features from GPS by Vertex Professional Services Ltd, 2024.

VERSATILITY. EXPERTISE.

ATTACHMENT 2

Client Name: XTO Energy, Inc.

Site Name: James Ranch Unit DI 1A Battery

NMOCD Tracking #: nAPP2411739118

Project #: 23E-04616

Lab Reports: 885-7159-1 and 885-7239-1

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs												
Sample Description			Field Screening		Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					
					Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH24-01	0	June 27, 2024	73	1,883	ND	ND	ND	ND	ND	ND	ND	1,600
	2	June 27, 2024	69	143	ND	ND	ND	ND	ND	ND	ND	320
BH24-02	0	June 27, 2024	132	12,540	ND	ND	ND	ND	ND	ND	ND	12,000
	2	June 27, 2024	131	5,655	ND	ND	ND	ND	ND	ND	ND	5,400
	4	June 29, 2024	117	5,670	ND	ND	ND	36	53	36	89	6,100
	5	June 29, 2024	92	3,355	ND	ND	ND	ND	ND	ND	ND	2,900
	6	June 29, 2024	118	2,308	ND	ND	ND	ND	ND	ND	ND	2,300
	7	June 29, 2024	107	2,105	ND	ND	ND	ND	ND	ND	ND	1,300
	8	June 29, 2024	63	1,840	ND	ND	ND	ND	ND	ND	ND	1,700
BH24-03	0	June 27, 2024	47	10,845	ND	ND	ND	ND	ND	ND	ND	12,000
	2	June 27, 2024	78	1,413	ND	ND	ND	ND	ND	ND	ND	2,600
BH24-04	0	June 27, 2024	65	10,480	ND	ND	ND	ND	ND	ND	ND	9,100
	2	June 27, 2024	97	4,543	ND	ND	ND	ND	ND	ND	ND	5,200
BH24-05	0	June 27, 2024	64	595	ND	ND	ND	ND	ND	ND	ND	390
	2	June 27, 2024	59	338	ND	ND	ND	ND	ND	ND	ND	250
BH24-06	0	June 27, 2024	78	9,898	ND	ND	ND	ND	ND	ND	ND	9,100
	2	June 27, 2024	55	843	ND	ND	ND	ND	ND	ND	ND	670
BH24-07	0	June 27, 2024	50	4,203	ND	ND	ND	ND	ND	ND	ND	3,200
	2	June 27, 2024	31	1,108	ND	ND	ND	ND	ND	ND	ND	960
	4	June 29, 2024	34	248	ND	ND	ND	ND	ND	ND	ND	110
BH24-08	0	June 27, 2024	61	1,170	ND	ND	ND	ND	ND	ND	ND	1,200
	2	June 27, 2024	59	2,668	ND	ND	ND	ND	ND	ND	ND	2,500
BH24-09	0	June 28, 2024	94	9,855	ND	ND	ND	ND	ND	ND	ND	8,800
	2	June 28, 2024	82	2,305	ND	ND	ND	ND	ND	ND	ND	3,300
BH24-10	0	June 28, 2024	70	8,205	ND	ND	ND	ND	ND	ND	ND	7,200
	2	June 28, 2024	74	3,120	ND	ND	ND	ND	ND	ND	ND	4,000
BH24-11	0	June 28, 2024	67	428	ND	ND	ND	ND	ND	ND	ND	340
	2	June 28, 2024	43	233	ND	ND	ND	ND	ND	ND	ND	150
BH24-12	0	June 28, 2024	38	338	ND	ND	ND	ND	ND	ND	ND	150
	2	June 28, 2024	34	245	ND	ND	ND	ND	ND	ND	ND	120
BH24-13	0	June 28, 2024	127	588	ND	ND	ND	14	ND	14	14	470
	2	June 28, 2024	61	263	ND	ND	ND	ND	ND	ND	ND	170
BH24-14	0	June 28, 2024	77	415	ND	ND	ND	11	ND	11	11	320
	2	June 28, 2024	66	225	ND	ND	ND	ND	ND	ND	ND	330
BH24-15	0	June 29, 2024	159	845	-	-	-	-	-	-	-	-
	2	June 29, 2024	65	210	-	-	-	-	-	-	-	-
BH24-16	0	June 29, 2024	155	850	ND	ND	ND	ND	ND	ND	ND	610
	2	June 29, 2024	61	278	ND	ND	ND	ND	ND	ND	ND	150

"ND" Not Detected at the Reporting Limit

"-." indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

ATTACHMENT 3



Daily Site Visit Report

Client:	<u>XTO Energy Inc. (US)</u>	Inspection Date:	<u>6/27/2024</u>
Site Location Name:	<u>JRU DI 1A CTB</u>	Report Run Date:	<u>6/28/2024 12:07 AM</u>
Client Contact Name:	<u>Marshall Boles</u>	API #:	<u></u>
Client Contact Phone #:	<u>(806) 367-2174</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site 6/27/2024 7:54 AM

Departed Site 6/27/2024 4:26 PM

Field Notes

17:58 Informed Wes Byrd of my arrival and assessed site for hazards. Filled out and reviewed safety documentation.

On site to begin delineation around release nAPP2411739118

8:46 Located proposed boreholes via gps and marked samples sites BH24-01 through BH24-07 with white paint.

17:55 Collected BH24-01 through -08 at surface (0') and 2' depths.

17:56 All samples field screened for chlorides using titration. All samples tested out of spec except BH24-05 at 0' band 2'.

17:57 All samples field screened for TPH using petroflag. All samples passed field screening criteria except BH24-02 at 0' and 2'.

17:57 All samples jarred and will be sent to laboratory for analysis.

Next Steps & Recommendations

1 Continue to delineate edges of release and get vertical delineation

Daily Site Visit Report



Site Photos

Viewing Direction: South



Area of release - nAPP2411739118

Viewing Direction: South



BH24-01 at 0' and 2' depths

Viewing Direction: West



BH24-02 at 0' and 2' depths

Viewing Direction: West



BH24-03 at 0' and 2' depths



Daily Site Visit Report

Viewing Direction: North



BH24-04 at 0' and 2' depths

Viewing Direction: North



BH24-05 at 0' and 2' depths

Viewing Direction: North



BH24-06 at 0' and 2' depths

Viewing Direction: Northeast



BH24-07 at 0' and 2' depths



Daily Site Visit Report

Viewing Direction: North



BH24-08 at 0' and 2' depths

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature:


Signature



Daily Site Visit Report

Client:	XTO Energy Inc. (US)	Inspection Date:	6/28/2024
Site Location Name:	JRU DI 1A CTB	Report Run Date:	6/28/2024 11:20 PM
Client Contact Name:	Marshall Boles	API #:	
Client Contact Phone #:	(806) 367-2174		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site 6/28/2024 7:48 AM

Departed Site 6/28/2024 3:45 PM

Field Notes

17:01 Informed Wes Byrd of my arrival and assessed site for hazards. Filled out and reviewed safety documentation.

On site to continue delineation around release nAPP2411739118, with the aim of obtaining east, west, and not horizontal edges.

17:01 Located proposed boreholes via gps and marked samples sites BH24-09 through BH24-12 with white paint.

17:08 Collected BH24-09 through -12 at surface (0') and 2' depths.

Field screened all samples for chlorides using titration. BH24-09 and -10 tested out of spec at both depths. -11 and -12 passed field screening criteria at both depths

17:09 All samples field screened for TPH using petroflag. All samples passed field screening criteria.

17:09 Collected BH24-13 (bumped out from -09) and BH24-14 (bumped out from -10)

Field screened all samples for chlorides using titration. All samples passed criteria

17:10 BH24-13 and -14 at 0' and 2' field screened for TPH using petroflag. All samples passed field screening criteria except BH24-13 at 0'.

17:10 All samples jarred and will be sent to lab for analysis

Daily Site Visit Report



Next Steps & Recommendations

- 1 Obtain north horizontal edge and vertical delineation

Daily Site Visit Report



Site Photos

Viewing Direction: Southeast



BH24-09 at surface (0') and 2'

Viewing Direction: South



BH24-10 at surface (0') and 2'

Viewing Direction: Northwest



BH24-11 at surface (0') and 2'

Viewing Direction: East



BH24-12 at surface (0') and 2'



Daily Site Visit Report

Viewing Direction: South



BH24-13 at surface (0') and 2'

Viewing Direction: West



BH24-14 at surface (0') and 2'

Viewing Direction: South



Overview of sampled area

Viewing Direction: East



Overview of sampled area

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature:

A handwritten signature in black ink, appearing to read 'Andrew Ludvik', written over a horizontal line. Below the line, the word 'Signature' is printed in a small font.

ATTACHMENT 4



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 7/9/2024 11:51:23 AM

JOB DESCRIPTION

JRU D1 1ACTB

JOB NUMBER

885-7159-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Generated
7/9/2024 11:51:23 AM

Client: Vertex
Project/Site: JRU D1 1ACTB

Laboratory Job ID: 885-7159-1



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Definitions/Glossary

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

HPLC/IC

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

Glossary

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

Case Narrative

Client: Vertex
Project: JRU D1 1ACTB

Job ID: 885-7159-1

Job ID: 885-7159-1Eurofins Albuquerque

Job Narrative
885-7159-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/29/2024 6:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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 Albuquerque

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-01 0.0'

Lab Sample ID: 885-7159-1

Date Collected: 06/27/24 08:55

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/01/24 14:00	07/03/24 03:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			07/01/24 14:00	07/03/24 03:30	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		07/01/24 14:00	07/03/24 03:30	1
Ethylbenzene	ND		0.050	mg/Kg		07/01/24 14:00	07/03/24 03:30	1
Toluene	ND		0.050	mg/Kg		07/01/24 14:00	07/03/24 03:30	1
Xylenes, Total	ND		0.099	mg/Kg		07/01/24 14:00	07/03/24 03:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145			07/01/24 14:00	07/03/24 03:30	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/02/24 08:13	07/02/24 13:35	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/02/24 08:13	07/02/24 13:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134			07/02/24 08:13	07/02/24 13:35	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600		150	mg/Kg		07/02/24 12:18	07/03/24 22:44	50

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-01 2.0'

Lab Sample ID: 885-7159-2

Date Collected: 06/27/24 09:00

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/01/24 14:00	07/03/24 03:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			07/01/24 14:00	07/03/24 03:53	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		07/01/24 14:00	07/03/24 03:53	1
Ethylbenzene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 03:53	1
Toluene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 03:53	1
Xylenes, Total	ND		0.098	mg/Kg		07/01/24 14:00	07/03/24 03:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			07/01/24 14:00	07/03/24 03:53	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		07/02/24 08:13	07/02/24 13:46	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		07/02/24 08:13	07/02/24 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			07/02/24 08:13	07/02/24 13:46	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320	F2	59	mg/Kg		07/02/24 12:18	07/02/24 15:11	20

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-02 0.0'

Lab Sample ID: 885-7159-3

Date Collected: 06/27/24 09:05

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/01/24 14:00	07/03/24 04:17		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		35 - 166			07/01/24 14:00	07/03/24 04:17		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/01/24 14:00	07/03/24 04:17		1
Ethylbenzene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 04:17		1
Toluene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 04:17		1
Xylenes, Total	ND		0.097	mg/Kg		07/01/24 14:00	07/03/24 04:17		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	85		48 - 145			07/01/24 14:00	07/03/24 04:17		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/02/24 08:13	07/02/24 13:57		1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/02/24 08:13	07/02/24 13:57		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	90		62 - 134			07/02/24 08:13	07/02/24 13:57		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	12000		600	mg/Kg		07/02/24 12:18	07/03/24 23:33		200

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-02 2.0'

Lab Sample ID: 885-7159-4

Date Collected: 06/27/24 09:10

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/01/24 14:00	07/03/24 04:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			07/01/24 14:00	07/03/24 04:40	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		07/01/24 14:00	07/03/24 04:40	1
Ethylbenzene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 04:40	1
Toluene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 04:40	1
Xylenes, Total	ND		0.098	mg/Kg		07/01/24 14:00	07/03/24 04:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			07/01/24 14:00	07/03/24 04:40	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12		9.7	mg/Kg		07/02/24 08:13	07/02/24 14:08	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		07/02/24 08:13	07/02/24 14:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			07/02/24 08:13	07/02/24 14:08	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5400		300	mg/Kg		07/02/24 12:18	07/04/24 00:23	100

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-03 0.0'

Lab Sample ID: 885-7159-5

Date Collected: 06/27/24 09:20

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		07/01/24 14:00	07/03/24 05:03	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		35 - 166			07/01/24 14:00	07/03/24 05:03	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/01/24 14:00	07/03/24 05:03	1	
Ethylbenzene	ND		0.047	mg/Kg		07/01/24 14:00	07/03/24 05:03	1	
Toluene	ND		0.047	mg/Kg		07/01/24 14:00	07/03/24 05:03	1	
Xylenes, Total	ND		0.094	mg/Kg		07/01/24 14:00	07/03/24 05:03	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	86		48 - 145			07/01/24 14:00	07/03/24 05:03	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		07/02/24 08:13	07/02/24 14:19	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		07/02/24 08:13	07/02/24 14:19	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	84		62 - 134			07/02/24 08:13	07/02/24 14:19	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	12000		600	mg/Kg		07/02/24 12:18	07/03/24 23:46	200	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-03 2.0'

Lab Sample ID: 885-7159-6

Date Collected: 06/27/24 09:25

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		07/01/24 14:00	07/03/24 05:27	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		35 - 166			07/01/24 14:00	07/03/24 05:27	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/01/24 14:00	07/03/24 05:27	1	
Ethylbenzene	ND		0.048	mg/Kg		07/01/24 14:00	07/03/24 05:27	1	
Toluene	ND		0.048	mg/Kg		07/01/24 14:00	07/03/24 05:27	1	
Xylenes, Total	ND		0.097	mg/Kg		07/01/24 14:00	07/03/24 05:27	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	83		48 - 145			07/01/24 14:00	07/03/24 05:27	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		07/02/24 08:13	07/02/24 14:30	1	
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		07/02/24 08:13	07/02/24 14:30	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	95		62 - 134			07/02/24 08:13	07/02/24 14:30	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2600		150	mg/Kg		07/02/24 12:18	07/03/24 22:56	50	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-04 0.0'

Lab Sample ID: 885-7159-7

Date Collected: 06/27/24 09:30

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		07/01/24 14:00	07/03/24 05:50	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		35 - 166			07/01/24 14:00	07/03/24 05:50	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/01/24 14:00	07/03/24 05:50	1	
Ethylbenzene	ND		0.048	mg/Kg		07/01/24 14:00	07/03/24 05:50	1	
Toluene	ND		0.048	mg/Kg		07/01/24 14:00	07/03/24 05:50	1	
Xylenes, Total	ND		0.096	mg/Kg		07/01/24 14:00	07/03/24 05:50	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	83		48 - 145			07/01/24 14:00	07/03/24 05:50	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		07/02/24 08:13	07/02/24 14:41	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		07/02/24 08:13	07/02/24 14:41	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	85		62 - 134			07/02/24 08:13	07/02/24 14:41	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	9100		600	mg/Kg		07/02/24 12:18	07/03/24 23:58	200	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-04 2.0'

Lab Sample ID: 885-7159-8

Date Collected: 06/27/24 09:35

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/01/24 14:00	07/03/24 06:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			07/01/24 14:00	07/03/24 06:14	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		07/01/24 14:00	07/03/24 06:14	1
Ethylbenzene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 06:14	1
Toluene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 06:14	1
Xylenes, Total	ND		0.099	mg/Kg		07/01/24 14:00	07/03/24 06:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		48 - 145			07/01/24 14:00	07/03/24 06:14	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		07/02/24 08:13	07/02/24 14:52	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		07/02/24 08:13	07/02/24 14:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			07/02/24 08:13	07/02/24 14:52	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5200		300	mg/Kg		07/02/24 12:18	07/04/24 00:35	100

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Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-05 0.0'

Lab Sample ID: 885-7159-9

Date Collected: 06/27/24 10:00

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/01/24 14:00	07/03/24 06:37	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		35 - 166			07/01/24 14:00	07/03/24 06:37	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/01/24 14:00	07/03/24 06:37	1	
Ethylbenzene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 06:37	1	
Toluene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 06:37	1	
Xylenes, Total	ND		0.098	mg/Kg		07/01/24 14:00	07/03/24 06:37	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	86		48 - 145			07/01/24 14:00	07/03/24 06:37	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		07/02/24 08:13	07/02/24 15:03	1	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		07/02/24 08:13	07/02/24 15:03	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	86		62 - 134			07/02/24 08:13	07/02/24 15:03	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	390		60	mg/Kg		07/02/24 12:18	07/02/24 17:33	20	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-05 2.0'

Lab Sample ID: 885-7159-10

Date Collected: 06/27/24 10:05

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/01/24 14:00	07/03/24 07:24	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		35 - 166			07/01/24 14:00	07/03/24 07:24	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/01/24 14:00	07/03/24 07:24	1	
Ethylbenzene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 07:24	1	
Toluene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 07:24	1	
Xylenes, Total	ND		0.098	mg/Kg		07/01/24 14:00	07/03/24 07:24	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	86		48 - 145			07/01/24 14:00	07/03/24 07:24	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		07/02/24 08:13	07/02/24 15:14	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		07/02/24 08:13	07/02/24 15:14	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	89		62 - 134			07/02/24 08:13	07/02/24 15:14	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	250		60	mg/Kg		07/02/24 12:18	07/02/24 17:45	20	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-06 0.0'

Lab Sample ID: 885-7159-11

Date Collected: 06/27/24 10:10

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/01/24 14:00	07/03/24 07:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			07/01/24 14:00	07/03/24 07:47	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		07/01/24 14:00	07/03/24 07:47	1
Ethylbenzene	ND		0.050	mg/Kg		07/01/24 14:00	07/03/24 07:47	1
Toluene	ND		0.050	mg/Kg		07/01/24 14:00	07/03/24 07:47	1
Xylenes, Total	ND		0.10	mg/Kg		07/01/24 14:00	07/03/24 07:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		48 - 145			07/01/24 14:00	07/03/24 07:47	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/02/24 08:13	07/02/24 15:25	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/02/24 08:13	07/02/24 15:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			07/02/24 08:13	07/02/24 15:25	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9100		600	mg/Kg		07/02/24 12:18	07/04/24 00:10	200

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-06 2.0'

Lab Sample ID: 885-7159-12

Date Collected: 06/27/24 10:15

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/01/24 14:00	07/03/24 08:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		35 - 166			07/01/24 14:00	07/03/24 08:11	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		07/01/24 14:00	07/03/24 08:11	1
Ethylbenzene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 08:11	1
Toluene	ND		0.049	mg/Kg		07/01/24 14:00	07/03/24 08:11	1
Xylenes, Total	ND		0.098	mg/Kg		07/01/24 14:00	07/03/24 08:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		48 - 145			07/01/24 14:00	07/03/24 08:11	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		07/02/24 08:13	07/02/24 15:38	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		07/02/24 08:13	07/02/24 15:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			07/02/24 08:13	07/02/24 15:38	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	670		60	mg/Kg		07/02/24 12:18	07/02/24 18:11	20

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-07 0.0'

Lab Sample ID: 885-7159-13

Date Collected: 06/27/24 10:20

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/02/24 13:17	07/03/24 11:52		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		35 - 166			07/02/24 13:17	07/03/24 11:52		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/02/24 13:17	07/03/24 11:52		1
Ethylbenzene	ND		0.050	mg/Kg		07/02/24 13:17	07/03/24 11:52		1
Toluene	ND		0.050	mg/Kg		07/02/24 13:17	07/03/24 11:52		1
Xylenes, Total	ND		0.10	mg/Kg		07/02/24 13:17	07/03/24 11:52		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	90		48 - 145			07/02/24 13:17	07/03/24 11:52		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		07/03/24 09:46	07/03/24 12:56		1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		07/03/24 09:46	07/03/24 12:56		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	88		62 - 134			07/03/24 09:46	07/03/24 12:56		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	3200		150	mg/Kg		07/03/24 12:45	07/05/24 15:25		50

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-07 2.0'

Lab Sample ID: 885-7159-14

Date Collected: 06/27/24 10:30

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/02/24 13:17	07/03/24 12:58		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		35 - 166			07/02/24 13:17	07/03/24 12:58		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/02/24 13:17	07/03/24 12:58		1
Ethylbenzene	ND		0.050	mg/Kg		07/02/24 13:17	07/03/24 12:58		1
Toluene	ND		0.050	mg/Kg		07/02/24 13:17	07/03/24 12:58		1
Xylenes, Total	ND		0.099	mg/Kg		07/02/24 13:17	07/03/24 12:58		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	94		48 - 145			07/02/24 13:17	07/03/24 12:58		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/03/24 09:46	07/03/24 13:07		1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/03/24 09:46	07/03/24 13:07		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	90		62 - 134			07/03/24 09:46	07/03/24 13:07		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	960		60	mg/Kg		07/03/24 12:45	07/03/24 17:35		20

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-08 0.0'

Lab Sample ID: 885-7159-15

Date Collected: 06/27/24 13:00

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/02/24 13:17	07/03/24 14:03		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		35 - 166			07/02/24 13:17	07/03/24 14:03		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/02/24 13:17	07/03/24 14:03		1
Ethylbenzene	ND		0.050	mg/Kg		07/02/24 13:17	07/03/24 14:03		1
Toluene	ND		0.050	mg/Kg		07/02/24 13:17	07/03/24 14:03		1
Xylenes, Total	ND		0.099	mg/Kg		07/02/24 13:17	07/03/24 14:03		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		48 - 145			07/02/24 13:17	07/03/24 14:03		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		07/03/24 09:46	07/03/24 13:18		1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		07/03/24 09:46	07/03/24 13:18		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	87		62 - 134			07/03/24 09:46	07/03/24 13:18		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1200		60	mg/Kg		07/03/24 12:45	07/03/24 17:47		20

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-08 2.0'

Lab Sample ID: 885-7159-16

Date Collected: 06/27/24 13:05

Matrix: Solid

Date Received: 06/29/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/02/24 13:17	07/03/24 14:25	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	88		35 - 166			07/02/24 13:17	07/03/24 14:25	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/02/24 13:17	07/03/24 14:25	1	
Ethylbenzene	ND		0.049	mg/Kg		07/02/24 13:17	07/03/24 14:25	1	
Toluene	ND		0.049	mg/Kg		07/02/24 13:17	07/03/24 14:25	1	
Xylenes, Total	ND		0.099	mg/Kg		07/02/24 13:17	07/03/24 14:25	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	90		48 - 145			07/02/24 13:17	07/03/24 14:25	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		07/03/24 09:46	07/03/24 13:28	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		07/03/24 09:46	07/03/24 13:28	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	91		62 - 134			07/03/24 09:46	07/03/24 13:28	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2500		150	mg/Kg		07/03/24 12:45	07/05/24 15:37	50	

QC Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-7717/1-A

Matrix: Solid

Analysis Batch: 7830

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7717

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/01/24 14:00	07/02/24 21:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			07/01/24 14:00	07/02/24 21:38	1

Lab Sample ID: LCS 885-7717/2-A

Matrix: Solid

Analysis Batch: 7830

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	23.7		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	195	S1+	35 - 166				

Lab Sample ID: MB 885-7806/1-A

Matrix: Solid

Analysis Batch: 7936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7806

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/02/24 13:17	07/03/24 11:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		35 - 166			07/02/24 13:17	07/03/24 11:30	1

Lab Sample ID: LCS 885-7806/2-A

Matrix: Solid

Analysis Batch: 7936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	24.5		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	206	S1+	35 - 166				

Lab Sample ID: 885-7159-13 MS

Matrix: Solid

Analysis Batch: 7936

Client Sample ID: BH24-07 0.0'

Prep Type: Total/NA

Prep Batch: 7806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	28.0		mg/Kg		112	70 - 130

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QC Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-7159-13 MS
Matrix: Solid
Analysis Batch: 7936

Client Sample ID: BH24-07 0.0'
Prep Type: Total/NA
Prep Batch: 7806

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	226	S1+	35 - 166

Lab Sample ID: 885-7159-13 MSD
Matrix: Solid
Analysis Batch: 7936

Client Sample ID: BH24-07 0.0'
Prep Type: Total/NA
Prep Batch: 7806

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	25.9		mg/Kg		105	70 - 130	8	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	211	S1+	35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-7717/1-A
Matrix: Solid
Analysis Batch: 7831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7717

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		07/01/24 14:00	07/02/24 21:38	1
Ethylbenzene	ND		0.050	mg/Kg		07/01/24 14:00	07/02/24 21:38	1
Toluene	ND		0.050	mg/Kg		07/01/24 14:00	07/02/24 21:38	1
Xylenes, Total	ND		0.10	mg/Kg		07/01/24 14:00	07/02/24 21:38	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	84		48 - 145			07/01/24 14:00	07/02/24 21:38	1

Lab Sample ID: LCS 885-7717/3-A
Matrix: Solid
Analysis Batch: 7831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.805		mg/Kg		81	70 - 130
Ethylbenzene	1.00	0.789		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	2.00	1.61		mg/Kg		80	70 - 130
o-Xylene	1.00	0.785		mg/Kg		78	70 - 130
Toluene	1.00	0.776		mg/Kg		78	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	87		48 - 145				

Lab Sample ID: MB 885-7806/1-A
Matrix: Solid
Analysis Batch: 7937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7806

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		07/02/24 13:17	07/03/24 11:30	1

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QC Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

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

Lab Sample ID: MB 885-7806/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 7937						Prep Batch: 7806			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Ethylbenzene	ND		0.050	mg/Kg		07/02/24 13:17	07/03/24 11:30	1	
Toluene	ND		0.050	mg/Kg		07/02/24 13:17	07/03/24 11:30	1	
Xylenes, Total	ND		0.10	mg/Kg		07/02/24 13:17	07/03/24 11:30	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		48 - 145			07/02/24 13:17	07/03/24 11:30	1	

Lab Sample ID: LCS 885-7806/3-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 7937						Prep Batch: 7806			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			1.00	0.775		mg/Kg		77	70 - 130
Ethylbenzene			1.00	0.847		mg/Kg		85	70 - 130
m-Xylene & p-Xylene			2.00	1.70		mg/Kg		85	70 - 130
o-Xylene			1.00	0.851		mg/Kg		85	70 - 130
Toluene			1.00	0.815		mg/Kg		82	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		48 - 145						

Lab Sample ID: 885-7159-14 MS						Client Sample ID: BH24-07 2.0'			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 7937						Prep Batch: 7806			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.996	0.839		mg/Kg		84	70 - 130
Ethylbenzene	ND		0.996	0.933		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	ND		1.99	1.87		mg/Kg		94	70 - 130
o-Xylene	ND		0.996	0.944		mg/Kg		95	70 - 130
Toluene	ND		0.996	0.897		mg/Kg		90	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		48 - 145						

Lab Sample ID: 885-7159-14 MSD								Client Sample ID: BH24-07 2.0'			
Matrix: Solid								Prep Type: Total/NA			
Analysis Batch: 7937								Prep Batch: 7806			
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limits
Benzene	ND		0.989	0.804		mg/Kg		81	70 - 130	4	20
Ethylbenzene	ND		0.989	0.919		mg/Kg		93	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.98	1.84		mg/Kg		93	70 - 130	1	20
o-Xylene	ND		0.989	0.929		mg/Kg		94	70 - 130	2	20
Toluene	ND		0.989	0.871		mg/Kg		88	70 - 130	3	20

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QC Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

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

Lab Sample ID: 885-7159-14 MSD
Matrix: Solid
Analysis Batch: 7937

Client Sample ID: BH24-07 2.0'
Prep Type: Total/NA
Prep Batch: 7806

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		48 - 145

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-7742/1-A
Matrix: Solid
Analysis Batch: 7757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7742

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/02/24 08:13	07/02/24 11:38	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/02/24 08:13	07/02/24 11:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			07/02/24 08:13	07/02/24 11:38	1

Lab Sample ID: LCS 885-7742/2-A
Matrix: Solid
Analysis Batch: 7757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	45.2		mg/Kg		90	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	87		62 - 134				

Lab Sample ID: 885-7159-12 MS
Matrix: Solid
Analysis Batch: 7757

Client Sample ID: BH24-06 2.0'
Prep Type: Total/NA
Prep Batch: 7742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		48.0	45.1		mg/Kg		94	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	89		62 - 134						

Lab Sample ID: 885-7159-12 MSD
Matrix: Solid
Analysis Batch: 7757

Client Sample ID: BH24-06 2.0'
Prep Type: Total/NA
Prep Batch: 7742

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		48.7	44.3		mg/Kg		91	44 - 136	2	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	89		62 - 134								

QC Sample Results

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-7860/1-A

Matrix: Solid

Analysis Batch: 7876

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7860

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/03/24 09:46	07/03/24 12:35	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/03/24 09:46	07/03/24 12:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	83		62 - 134			07/03/24 09:46	07/03/24 12:35	1

Lab Sample ID: LCS 885-7860/2-A

Matrix: Solid

Analysis Batch: 7876

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7860

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Diesel Range Organics [C10-C28]	50.0	49.3		mg/Kg		99	60 - 135	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Di-n-octyl phthalate (Surr)	89		62 - 134					

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-7780/1-A

Matrix: Solid

Analysis Batch: 7804

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7780

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		07/02/24 12:18	07/02/24 13:54	1

Lab Sample ID: LCS 885-7780/2-A

Matrix: Solid

Analysis Batch: 7804

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	30.0	28.2		mg/Kg		94	90 - 110	

Lab Sample ID: MB 885-7880/1-A

Matrix: Solid

Analysis Batch: 7895

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7880

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		07/03/24 12:45	07/03/24 16:33	1

Lab Sample ID: LCS 885-7880/2-A

Matrix: Solid

Analysis Batch: 7895

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	30.0	27.8		mg/Kg		93	90 - 110	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

GC VOA

Prep Batch: 7717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-1	BH24-01 0.0'	Total/NA	Solid	5030C	
885-7159-2	BH24-01 2.0'	Total/NA	Solid	5030C	
885-7159-3	BH24-02 0.0'	Total/NA	Solid	5030C	
885-7159-4	BH24-02 2.0'	Total/NA	Solid	5030C	
885-7159-5	BH24-03 0.0'	Total/NA	Solid	5030C	
885-7159-6	BH24-03 2.0'	Total/NA	Solid	5030C	
885-7159-7	BH24-04 0.0'	Total/NA	Solid	5030C	
885-7159-8	BH24-04 2.0'	Total/NA	Solid	5030C	
885-7159-9	BH24-05 0.0'	Total/NA	Solid	5030C	
885-7159-10	BH24-05 2.0'	Total/NA	Solid	5030C	
885-7159-11	BH24-06 0.0'	Total/NA	Solid	5030C	
885-7159-12	BH24-06 2.0'	Total/NA	Solid	5030C	
MB 885-7717/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-7717/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-7717/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 7806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-13	BH24-07 0.0'	Total/NA	Solid	5030C	
885-7159-14	BH24-07 2.0'	Total/NA	Solid	5030C	
885-7159-15	BH24-08 0.0'	Total/NA	Solid	5030C	
885-7159-16	BH24-08 2.0'	Total/NA	Solid	5030C	
MB 885-7806/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-7806/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-7806/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-7159-13 MS	BH24-07 0.0'	Total/NA	Solid	5030C	
885-7159-13 MSD	BH24-07 0.0'	Total/NA	Solid	5030C	
885-7159-14 MS	BH24-07 2.0'	Total/NA	Solid	5030C	
885-7159-14 MSD	BH24-07 2.0'	Total/NA	Solid	5030C	

Analysis Batch: 7830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-1	BH24-01 0.0'	Total/NA	Solid	8015M/D	7717
885-7159-2	BH24-01 2.0'	Total/NA	Solid	8015M/D	7717
885-7159-3	BH24-02 0.0'	Total/NA	Solid	8015M/D	7717
885-7159-4	BH24-02 2.0'	Total/NA	Solid	8015M/D	7717
885-7159-5	BH24-03 0.0'	Total/NA	Solid	8015M/D	7717
885-7159-6	BH24-03 2.0'	Total/NA	Solid	8015M/D	7717
885-7159-7	BH24-04 0.0'	Total/NA	Solid	8015M/D	7717
885-7159-8	BH24-04 2.0'	Total/NA	Solid	8015M/D	7717
885-7159-9	BH24-05 0.0'	Total/NA	Solid	8015M/D	7717
885-7159-10	BH24-05 2.0'	Total/NA	Solid	8015M/D	7717
885-7159-11	BH24-06 0.0'	Total/NA	Solid	8015M/D	7717
885-7159-12	BH24-06 2.0'	Total/NA	Solid	8015M/D	7717
MB 885-7717/1-A	Method Blank	Total/NA	Solid	8015M/D	7717
LCS 885-7717/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7717

Analysis Batch: 7831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-1	BH24-01 0.0'	Total/NA	Solid	8021B	7717
885-7159-2	BH24-01 2.0'	Total/NA	Solid	8021B	7717

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

GC VOA (Continued)

Analysis Batch: 7831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-3	BH24-02 0.0'	Total/NA	Solid	8021B	7717
885-7159-4	BH24-02 2.0'	Total/NA	Solid	8021B	7717
885-7159-5	BH24-03 0.0'	Total/NA	Solid	8021B	7717
885-7159-6	BH24-03 2.0'	Total/NA	Solid	8021B	7717
885-7159-7	BH24-04 0.0'	Total/NA	Solid	8021B	7717
885-7159-8	BH24-04 2.0'	Total/NA	Solid	8021B	7717
885-7159-9	BH24-05 0.0'	Total/NA	Solid	8021B	7717
885-7159-10	BH24-05 2.0'	Total/NA	Solid	8021B	7717
885-7159-11	BH24-06 0.0'	Total/NA	Solid	8021B	7717
885-7159-12	BH24-06 2.0'	Total/NA	Solid	8021B	7717
MB 885-7717/1-A	Method Blank	Total/NA	Solid	8021B	7717
LCS 885-7717/3-A	Lab Control Sample	Total/NA	Solid	8021B	7717

Analysis Batch: 7936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-13	BH24-07 0.0'	Total/NA	Solid	8015M/D	7806
885-7159-14	BH24-07 2.0'	Total/NA	Solid	8015M/D	7806
885-7159-15	BH24-08 0.0'	Total/NA	Solid	8015M/D	7806
885-7159-16	BH24-08 2.0'	Total/NA	Solid	8015M/D	7806
MB 885-7806/1-A	Method Blank	Total/NA	Solid	8015M/D	7806
LCS 885-7806/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7806
885-7159-13 MS	BH24-07 0.0'	Total/NA	Solid	8015M/D	7806
885-7159-13 MSD	BH24-07 0.0'	Total/NA	Solid	8015M/D	7806

Analysis Batch: 7937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-13	BH24-07 0.0'	Total/NA	Solid	8021B	7806
885-7159-14	BH24-07 2.0'	Total/NA	Solid	8021B	7806
885-7159-15	BH24-08 0.0'	Total/NA	Solid	8021B	7806
885-7159-16	BH24-08 2.0'	Total/NA	Solid	8021B	7806
MB 885-7806/1-A	Method Blank	Total/NA	Solid	8021B	7806
LCS 885-7806/3-A	Lab Control Sample	Total/NA	Solid	8021B	7806
885-7159-14 MS	BH24-07 2.0'	Total/NA	Solid	8021B	7806
885-7159-14 MSD	BH24-07 2.0'	Total/NA	Solid	8021B	7806

GC Semi VOA

Prep Batch: 7742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-1	BH24-01 0.0'	Total/NA	Solid	SHAKE	
885-7159-2	BH24-01 2.0'	Total/NA	Solid	SHAKE	
885-7159-3	BH24-02 0.0'	Total/NA	Solid	SHAKE	
885-7159-4	BH24-02 2.0'	Total/NA	Solid	SHAKE	
885-7159-5	BH24-03 0.0'	Total/NA	Solid	SHAKE	
885-7159-6	BH24-03 2.0'	Total/NA	Solid	SHAKE	
885-7159-7	BH24-04 0.0'	Total/NA	Solid	SHAKE	
885-7159-8	BH24-04 2.0'	Total/NA	Solid	SHAKE	
885-7159-9	BH24-05 0.0'	Total/NA	Solid	SHAKE	
885-7159-10	BH24-05 2.0'	Total/NA	Solid	SHAKE	
885-7159-11	BH24-06 0.0'	Total/NA	Solid	SHAKE	
885-7159-12	BH24-06 2.0'	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

GC Semi VOA (Continued)

Prep Batch: 7742 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-7742/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-7742/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-7159-12 MS	BH24-06 2.0'	Total/NA	Solid	SHAKE	
885-7159-12 MSD	BH24-06 2.0'	Total/NA	Solid	SHAKE	

Analysis Batch: 7757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-1	BH24-01 0.0'	Total/NA	Solid	8015M/D	7742
885-7159-2	BH24-01 2.0'	Total/NA	Solid	8015M/D	7742
885-7159-3	BH24-02 0.0'	Total/NA	Solid	8015M/D	7742
885-7159-4	BH24-02 2.0'	Total/NA	Solid	8015M/D	7742
885-7159-5	BH24-03 0.0'	Total/NA	Solid	8015M/D	7742
885-7159-6	BH24-03 2.0'	Total/NA	Solid	8015M/D	7742
885-7159-7	BH24-04 0.0'	Total/NA	Solid	8015M/D	7742
885-7159-8	BH24-04 2.0'	Total/NA	Solid	8015M/D	7742
885-7159-9	BH24-05 0.0'	Total/NA	Solid	8015M/D	7742
885-7159-10	BH24-05 2.0'	Total/NA	Solid	8015M/D	7742
885-7159-11	BH24-06 0.0'	Total/NA	Solid	8015M/D	7742
885-7159-12	BH24-06 2.0'	Total/NA	Solid	8015M/D	7742
MB 885-7742/1-A	Method Blank	Total/NA	Solid	8015M/D	7742
LCS 885-7742/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7742
885-7159-12 MS	BH24-06 2.0'	Total/NA	Solid	8015M/D	7742
885-7159-12 MSD	BH24-06 2.0'	Total/NA	Solid	8015M/D	7742

Prep Batch: 7860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-13	BH24-07 0.0'	Total/NA	Solid	SHAKE	
885-7159-14	BH24-07 2.0'	Total/NA	Solid	SHAKE	
885-7159-15	BH24-08 0.0'	Total/NA	Solid	SHAKE	
885-7159-16	BH24-08 2.0'	Total/NA	Solid	SHAKE	
MB 885-7860/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-7860/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 7876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-13	BH24-07 0.0'	Total/NA	Solid	8015M/D	7860
885-7159-14	BH24-07 2.0'	Total/NA	Solid	8015M/D	7860
885-7159-15	BH24-08 0.0'	Total/NA	Solid	8015M/D	7860
885-7159-16	BH24-08 2.0'	Total/NA	Solid	8015M/D	7860
MB 885-7860/1-A	Method Blank	Total/NA	Solid	8015M/D	7860
LCS 885-7860/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7860

HPLC/IC

Prep Batch: 7780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-1	BH24-01 0.0'	Total/NA	Solid	300_Prep	
885-7159-2	BH24-01 2.0'	Total/NA	Solid	300_Prep	
885-7159-3	BH24-02 0.0'	Total/NA	Solid	300_Prep	
885-7159-4	BH24-02 2.0'	Total/NA	Solid	300_Prep	
885-7159-5	BH24-03 0.0'	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

HPLC/IC (Continued)

Prep Batch: 7780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-6	BH24-03 2.0'	Total/NA	Solid	300_Prep	
885-7159-7	BH24-04 0.0'	Total/NA	Solid	300_Prep	
885-7159-8	BH24-04 2.0'	Total/NA	Solid	300_Prep	
885-7159-9	BH24-05 0.0'	Total/NA	Solid	300_Prep	
885-7159-10	BH24-05 2.0'	Total/NA	Solid	300_Prep	
885-7159-11	BH24-06 0.0'	Total/NA	Solid	300_Prep	
885-7159-12	BH24-06 2.0'	Total/NA	Solid	300_Prep	
MB 885-7780/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-7780/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 7804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-2	BH24-01 2.0'	Total/NA	Solid	300.0	7780
885-7159-9	BH24-05 0.0'	Total/NA	Solid	300.0	7780
885-7159-10	BH24-05 2.0'	Total/NA	Solid	300.0	7780
885-7159-12	BH24-06 2.0'	Total/NA	Solid	300.0	7780
MB 885-7780/1-A	Method Blank	Total/NA	Solid	300.0	7780
LCS 885-7780/2-A	Lab Control Sample	Total/NA	Solid	300.0	7780

Prep Batch: 7880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-13	BH24-07 0.0'	Total/NA	Solid	300_Prep	
885-7159-14	BH24-07 2.0'	Total/NA	Solid	300_Prep	
885-7159-15	BH24-08 0.0'	Total/NA	Solid	300_Prep	
885-7159-16	BH24-08 2.0'	Total/NA	Solid	300_Prep	
MB 885-7880/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-7880/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 7895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-1	BH24-01 0.0'	Total/NA	Solid	300.0	7780
885-7159-3	BH24-02 0.0'	Total/NA	Solid	300.0	7780
885-7159-4	BH24-02 2.0'	Total/NA	Solid	300.0	7780
885-7159-5	BH24-03 0.0'	Total/NA	Solid	300.0	7780
885-7159-6	BH24-03 2.0'	Total/NA	Solid	300.0	7780
885-7159-7	BH24-04 0.0'	Total/NA	Solid	300.0	7780
885-7159-8	BH24-04 2.0'	Total/NA	Solid	300.0	7780
885-7159-11	BH24-06 0.0'	Total/NA	Solid	300.0	7780
885-7159-14	BH24-07 2.0'	Total/NA	Solid	300.0	7880
885-7159-15	BH24-08 0.0'	Total/NA	Solid	300.0	7880
MB 885-7880/1-A	Method Blank	Total/NA	Solid	300.0	7880
LCS 885-7880/2-A	Lab Control Sample	Total/NA	Solid	300.0	7880

Analysis Batch: 8024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7159-13	BH24-07 0.0'	Total/NA	Solid	300.0	7880
885-7159-16	BH24-08 2.0'	Total/NA	Solid	300.0	7880

Lab Chronicle

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-01 0.0'
Date Collected: 06/27/24 08:55
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8015M/D		1	7830	JP	EET ALB	07/03/24 03:30
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8021B		1	7831	JP	EET ALB	07/03/24 03:30
Total/NA	Prep	SHAKE			7742	KR	EET ALB	07/02/24 08:13
Total/NA	Analysis	8015M/D		1	7757	PD	EET ALB	07/02/24 13:35
Total/NA	Prep	300_Prep			7780	RC	EET ALB	07/02/24 12:18
Total/NA	Analysis	300.0		50	7895	MA	EET ALB	07/03/24 22:44

Client Sample ID: BH24-01 2.0'
Date Collected: 06/27/24 09:00
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8015M/D		1	7830	JP	EET ALB	07/03/24 03:53
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8021B		1	7831	JP	EET ALB	07/03/24 03:53
Total/NA	Prep	SHAKE			7742	KR	EET ALB	07/02/24 08:13
Total/NA	Analysis	8015M/D		1	7757	PD	EET ALB	07/02/24 13:46
Total/NA	Prep	300_Prep			7780	RC	EET ALB	07/02/24 12:18
Total/NA	Analysis	300.0		20	7804	RC	EET ALB	07/02/24 15:11

Client Sample ID: BH24-02 0.0'
Date Collected: 06/27/24 09:05
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8015M/D		1	7830	JP	EET ALB	07/03/24 04:17
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8021B		1	7831	JP	EET ALB	07/03/24 04:17
Total/NA	Prep	SHAKE			7742	KR	EET ALB	07/02/24 08:13
Total/NA	Analysis	8015M/D		1	7757	PD	EET ALB	07/02/24 13:57
Total/NA	Prep	300_Prep			7780	RC	EET ALB	07/02/24 12:18
Total/NA	Analysis	300.0		200	7895	MA	EET ALB	07/03/24 23:33

Client Sample ID: BH24-02 2.0'
Date Collected: 06/27/24 09:10
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8015M/D		1	7830	JP	EET ALB	07/03/24 04:40

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-02 2.0'
Date Collected: 06/27/24 09:10
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8021B		1	7831	JP	EET ALB	07/03/24 04:40
Total/NA	Prep	SHAKE			7742	KR	EET ALB	07/02/24 08:13
Total/NA	Analysis	8015M/D		1	7757	PD	EET ALB	07/02/24 14:08
Total/NA	Prep	300_Prep			7780	RC	EET ALB	07/02/24 12:18
Total/NA	Analysis	300.0		100	7895	MA	EET ALB	07/04/24 00:23

Client Sample ID: BH24-03 0.0'
Date Collected: 06/27/24 09:20
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8015M/D		1	7830	JP	EET ALB	07/03/24 05:03
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8021B		1	7831	JP	EET ALB	07/03/24 05:03
Total/NA	Prep	SHAKE			7742	KR	EET ALB	07/02/24 08:13
Total/NA	Analysis	8015M/D		1	7757	PD	EET ALB	07/02/24 14:19
Total/NA	Prep	300_Prep			7780	RC	EET ALB	07/02/24 12:18
Total/NA	Analysis	300.0		200	7895	MA	EET ALB	07/03/24 23:46

Client Sample ID: BH24-03 2.0'
Date Collected: 06/27/24 09:25
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8015M/D		1	7830	JP	EET ALB	07/03/24 05:27
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8021B		1	7831	JP	EET ALB	07/03/24 05:27
Total/NA	Prep	SHAKE			7742	KR	EET ALB	07/02/24 08:13
Total/NA	Analysis	8015M/D		1	7757	PD	EET ALB	07/02/24 14:30
Total/NA	Prep	300_Prep			7780	RC	EET ALB	07/02/24 12:18
Total/NA	Analysis	300.0		50	7895	MA	EET ALB	07/03/24 22:56

Client Sample ID: BH24-04 0.0'
Date Collected: 06/27/24 09:30
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8015M/D		1	7830	JP	EET ALB	07/03/24 05:50
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8021B		1	7831	JP	EET ALB	07/03/24 05:50

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-04 0.0'
Date Collected: 06/27/24 09:30
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			7742	KR	EET ALB	07/02/24 08:13
Total/NA	Analysis	8015M/D		1	7757	PD	EET ALB	07/02/24 14:41
Total/NA	Prep	300_Prep			7780	RC	EET ALB	07/02/24 12:18
Total/NA	Analysis	300.0		200	7895	MA	EET ALB	07/03/24 23:58

Client Sample ID: BH24-04 2.0'
Date Collected: 06/27/24 09:35
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8015M/D		1	7830	JP	EET ALB	07/03/24 06:14
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8021B		1	7831	JP	EET ALB	07/03/24 06:14
Total/NA	Prep	SHAKE			7742	KR	EET ALB	07/02/24 08:13
Total/NA	Analysis	8015M/D		1	7757	PD	EET ALB	07/02/24 14:52
Total/NA	Prep	300_Prep			7780	RC	EET ALB	07/02/24 12:18
Total/NA	Analysis	300.0		100	7895	MA	EET ALB	07/04/24 00:35

Client Sample ID: BH24-05 0.0'
Date Collected: 06/27/24 10:00
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8015M/D		1	7830	JP	EET ALB	07/03/24 06:37
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8021B		1	7831	JP	EET ALB	07/03/24 06:37
Total/NA	Prep	SHAKE			7742	KR	EET ALB	07/02/24 08:13
Total/NA	Analysis	8015M/D		1	7757	PD	EET ALB	07/02/24 15:03
Total/NA	Prep	300_Prep			7780	RC	EET ALB	07/02/24 12:18
Total/NA	Analysis	300.0		20	7804	RC	EET ALB	07/02/24 17:33

Client Sample ID: BH24-05 2.0'
Date Collected: 06/27/24 10:05
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8015M/D		1	7830	JP	EET ALB	07/03/24 07:24
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8021B		1	7831	JP	EET ALB	07/03/24 07:24
Total/NA	Prep	SHAKE			7742	KR	EET ALB	07/02/24 08:13
Total/NA	Analysis	8015M/D		1	7757	PD	EET ALB	07/02/24 15:14

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-05 2.0'

Lab Sample ID: 885-7159-10

Date Collected: 06/27/24 10:05

Matrix: Solid

Date Received: 06/29/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			7780	RC	EET ALB	07/02/24 12:18
Total/NA	Analysis	300.0		20	7804	RC	EET ALB	07/02/24 17:45

Client Sample ID: BH24-06 0.0'

Lab Sample ID: 885-7159-11

Date Collected: 06/27/24 10:10

Matrix: Solid

Date Received: 06/29/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8015M/D		1	7830	JP	EET ALB	07/03/24 07:47
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8021B		1	7831	JP	EET ALB	07/03/24 07:47
Total/NA	Prep	SHAKE			7742	KR	EET ALB	07/02/24 08:13
Total/NA	Analysis	8015M/D		1	7757	PD	EET ALB	07/02/24 15:25
Total/NA	Prep	300_Prep			7780	RC	EET ALB	07/02/24 12:18
Total/NA	Analysis	300.0		200	7895	MA	EET ALB	07/04/24 00:10

Client Sample ID: BH24-06 2.0'

Lab Sample ID: 885-7159-12

Date Collected: 06/27/24 10:15

Matrix: Solid

Date Received: 06/29/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8015M/D		1	7830	JP	EET ALB	07/03/24 08:11
Total/NA	Prep	5030C			7717	AT	EET ALB	07/01/24 14:00
Total/NA	Analysis	8021B		1	7831	JP	EET ALB	07/03/24 08:11
Total/NA	Prep	SHAKE			7742	KR	EET ALB	07/02/24 08:13
Total/NA	Analysis	8015M/D		1	7757	PD	EET ALB	07/02/24 15:38
Total/NA	Prep	300_Prep			7780	RC	EET ALB	07/02/24 12:18
Total/NA	Analysis	300.0		20	7804	RC	EET ALB	07/02/24 18:11

Client Sample ID: BH24-07 0.0'

Lab Sample ID: 885-7159-13

Date Collected: 06/27/24 10:20

Matrix: Solid

Date Received: 06/29/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 11:52
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 11:52
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 12:56
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		50	8024	JT	EET ALB	07/05/24 15:25

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Client Sample ID: BH24-07 2.0'
Date Collected: 06/27/24 10:30
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 12:58
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 12:58
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 13:07
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		20	7895	MA	EET ALB	07/03/24 17:35

Client Sample ID: BH24-08 0.0'
Date Collected: 06/27/24 13:00
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 14:03
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 14:03
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 13:18
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		20	7895	MA	EET ALB	07/03/24 17:47

Client Sample ID: BH24-08 2.0'
Date Collected: 06/27/24 13:05
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 14:25
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 14:25
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 13:28
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		50	8024	JT	EET ALB	07/05/24 15:37

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex
Project/Site: JRU D1 1ACTB

Job ID: 885-7159-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Vertex

(XTO Energy)

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard☒ Rush

Project Name:

SRV DI IACTB

Project #:

23E-04616

Project Manager:

Sally CarttarSampler: ALOn Ice: ☒ Yes☐ Noyes# of Coolers: 1Cooler Temp (including CP): 2.0 ± 0.2 (°C)

Container Type and #

402

Preservative Type

ICE

HEAL No.

123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100101102103104105106107108109110111112113114115116117118119120121122123124125126127128129130131132133134135136137138139140141142143144145146147148149150151152153154155156157158159160161162163164165166167168169170171172173174175176177178179180181182183184185186187188189190191192193194195196197198199200201202203204205206207208209210211212213214215216217218219220221222223224225226227228229230231232233234235236237238239240241242243244245246247248249250251252253254255256257258259260261262263264265266267268269270271272273274275276277278279280281282283284285286287288289290291292293294295296297298299300301302

Chain-of-Custody Record									
Client: <u>Vertex</u>		Turn-Around Time: <u>Standard</u> ☒ <u>Rush</u> ☐ <u>5-day</u>							
Mailing Address: <u>(XTO Energy)</u> <u>On File</u>		Project Name: <u>JRU DI 1A CTB</u>							
Phone #: <u> </u>		Project #: <u>23E-04616</u>							
email or Fax#: <u> </u>		Project Manager: <u>Sally Carttar</u>							
QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)		Sampler: <u>AL</u>							
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other <u> </u>		On Ice: ☒ Yes ☐ No <u>100</u>							
☐ EDD (Type) <u> </u>		# of Coolers: <u>1</u>							
		Cooler Temp (including CF): <u>2.0 ± 0 = 2.0</u> (°C)							
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.			
<u>6/27/24</u>	<u>1020</u>	<u>Soil</u>	<u>BH24-07 0.0'</u>	<u>402</u>	<u>ICE</u>	<u>13</u>			
<u> </u>	<u>1030</u>	<u> </u>	<u>BH24-07 2.0'</u>	<u> </u>	<u> </u>	<u>14</u>			
<u> </u>	<u>1300</u>	<u> </u>	<u>BH24-08 0.0'</u>	<u> </u>	<u> </u>	<u>15</u>			
<u> </u>	<u>1305</u>	<u> </u>	<u>BH24-08 2.0'</u>	<u> </u>	<u> </u>	<u>16</u>			
Date	Time	Relinquished by		Received by		Via	Date	Time	
<u>6/28/24</u>	<u>1900</u>	<u> </u>		<u> </u>		<u> </u>	<u>6/28/24</u>	<u>045</u>	
Date	Time	Relinquished by		Received by		Via	Date	Time	
<u>6/28/24</u>	<u>1900</u>	<u> </u>		<u> </u>		<u> </u>	<u>6/28/24</u>	<u>045</u>	

Analysis Request	
BTEX MTBE / TMB's (8021)	
TPH8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks: Bill Direct to XTO Energy
 NAPP 2411739118
 Cost Center # 1082151001
 CC: Scarlett @ Vertex.Ca
 ALYSSIA @ Vertex.Ca

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-7159-1

Login Number: 7159

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

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").	True	



Environment Testing

- 1
- 2
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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 7/26/2024 9:38:55 AM

JOB DESCRIPTION

JRU D1 1A CTB

JOB NUMBER

885-7239-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

Generated
7/26/2024 9:38:55 AM

Client: Vertex
Project/Site: JRU D1 1A CTB

Laboratory Job ID: 885-7239-1

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Definitions/Glossary

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Case Narrative

Client: Vertex
Project: JRU D1 1A CTB

Job ID: 885-7239-1

Job ID: 885-7239-1

Eurofins Albuquerque

Job Narrative 885-7239-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 7/2/2024 8:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-8353 and analytical batch 885-8410 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is 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 Albuquerque

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-09 0.0'
Date Collected: 06/28/24 08:35
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-1
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		07/02/24 13:17	07/03/24 16:15	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	98		35 - 166			07/02/24 13:17	07/03/24 16:15	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/02/24 13:17	07/03/24 16:15	1	
Ethylbenzene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 16:15	1	
Toluene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 16:15	1	
Xylenes, Total	ND		0.097	mg/Kg		07/02/24 13:17	07/03/24 16:15	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		48 - 145			07/02/24 13:17	07/03/24 16:15	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		07/03/24 09:46	07/03/24 14:33	1	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		07/03/24 09:46	07/03/24 14:33	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	88		62 - 134			07/03/24 09:46	07/03/24 14:33	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	8800		300	mg/Kg		07/03/24 12:45	07/05/24 15:49	100	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-09 2.0'
Date Collected: 06/28/24 08:40
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-2
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		07/02/24 13:17	07/03/24 16:37	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		35 - 166			07/02/24 13:17	07/03/24 16:37	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/02/24 13:17	07/03/24 16:37	1	
Ethylbenzene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 16:37	1	
Toluene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 16:37	1	
Xylenes, Total	ND		0.097	mg/Kg		07/02/24 13:17	07/03/24 16:37	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	94		48 - 145			07/02/24 13:17	07/03/24 16:37	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		07/03/24 09:46	07/03/24 14:44	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		07/03/24 09:46	07/03/24 14:44	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	83		62 - 134			07/03/24 09:46	07/03/24 14:44	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	3300		150	mg/Kg		07/03/24 12:45	07/05/24 16:02	50	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-10 0.0'

Lab Sample ID: 885-7239-3

Date Collected: 06/28/24 08:45

Matrix: Solid

Date Received: 07/02/24 08:03

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		07/02/24 13:17	07/03/24 17:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		35 - 166			07/02/24 13:17	07/03/24 17:21	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/02/24 13:17	07/03/24 17:21	1	
Ethylbenzene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 17:21	1	
Toluene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 17:21	1	
Xylenes, Total	ND		0.095	mg/Kg		07/02/24 13:17	07/03/24 17:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	94		48 - 145			07/02/24 13:17	07/03/24 17:21	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/03/24 09:46	07/03/24 14:55	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/03/24 09:46	07/03/24 14:55	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	94		62 - 134			07/03/24 09:46	07/03/24 14:55	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	7200		300	mg/Kg		07/03/24 12:45	07/05/24 16:39	100	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-10 2.0'
Date Collected: 06/28/24 08:50
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-4
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/02/24 13:17	07/03/24 17:43	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		35 - 166			07/02/24 13:17	07/03/24 17:43	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/02/24 13:17	07/03/24 17:43	1	
Ethylbenzene	ND		0.049	mg/Kg		07/02/24 13:17	07/03/24 17:43	1	
Toluene	ND		0.049	mg/Kg		07/02/24 13:17	07/03/24 17:43	1	
Xylenes, Total	ND		0.098	mg/Kg		07/02/24 13:17	07/03/24 17:43	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	92		48 - 145			07/02/24 13:17	07/03/24 17:43	1	

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		07/03/24 09:46	07/03/24 15:05	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/03/24 09:46	07/03/24 15:05	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	104		62 - 134			07/03/24 09:46	07/03/24 15:05	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	4000		150	mg/Kg		07/03/24 12:45	07/08/24 16:47	50	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-11 0.0'
Date Collected: 06/28/24 09:00
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-5
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/02/24 13:17	07/03/24 18:05	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	94		35 - 166			07/02/24 13:17	07/03/24 18:05	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/02/24 13:17	07/03/24 18:05	1	
Ethylbenzene	ND		0.050	mg/Kg		07/02/24 13:17	07/03/24 18:05	1	
Toluene	ND		0.050	mg/Kg		07/02/24 13:17	07/03/24 18:05	1	
Xylenes, Total	ND		0.10	mg/Kg		07/02/24 13:17	07/03/24 18:05	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	92		48 - 145			07/02/24 13:17	07/03/24 18:05	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		07/03/24 09:46	07/03/24 15:16	1	
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		07/03/24 09:46	07/03/24 15:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	83		62 - 134			07/03/24 09:46	07/03/24 15:16	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	340		60	mg/Kg		07/03/24 12:45	07/03/24 21:05	20	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-11 2.0'

Lab Sample ID: 885-7239-6

Date Collected: 06/28/24 09:05

Matrix: Solid

Date Received: 07/02/24 08:03

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/02/24 13:17	07/03/24 18:27	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		35 - 166			07/02/24 13:17	07/03/24 18:27	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/02/24 13:17	07/03/24 18:27	1	
Ethylbenzene	ND		0.049	mg/Kg		07/02/24 13:17	07/03/24 18:27	1	
Toluene	ND		0.049	mg/Kg		07/02/24 13:17	07/03/24 18:27	1	
Xylenes, Total	ND		0.098	mg/Kg		07/02/24 13:17	07/03/24 18:27	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		48 - 145			07/02/24 13:17	07/03/24 18:27	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		07/03/24 09:46	07/03/24 15:27	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		07/03/24 09:46	07/03/24 15:27	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	87		62 - 134			07/03/24 09:46	07/03/24 15:27	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	150		60	mg/Kg		07/03/24 12:45	07/03/24 21:17	20	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-12 0.0'

Lab Sample ID: 885-7239-7

Date Collected: 06/28/24 09:15

Matrix: Solid

Date Received: 07/02/24 08:03

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/02/24 13:17	07/03/24 18:49		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		35 - 166			07/02/24 13:17	07/03/24 18:49		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/02/24 13:17	07/03/24 18:49		1
Ethylbenzene	ND		0.049	mg/Kg		07/02/24 13:17	07/03/24 18:49		1
Toluene	ND		0.049	mg/Kg		07/02/24 13:17	07/03/24 18:49		1
Xylenes, Total	ND		0.098	mg/Kg		07/02/24 13:17	07/03/24 18:49		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	92		48 - 145			07/02/24 13:17	07/03/24 18:49		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		07/03/24 09:46	07/03/24 15:38		1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		07/03/24 09:46	07/03/24 15:38		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	85		62 - 134			07/03/24 09:46	07/03/24 15:38		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	150		60	mg/Kg		07/03/24 12:45	07/03/24 21:30		20

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-12 2.0'
Date Collected: 06/28/24 09:20
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-8
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/02/24 13:17	07/03/24 19:11	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		35 - 166			07/02/24 13:17	07/03/24 19:11	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/02/24 13:17	07/03/24 19:11	1	
Ethylbenzene	ND		0.049	mg/Kg		07/02/24 13:17	07/03/24 19:11	1	
Toluene	ND		0.049	mg/Kg		07/02/24 13:17	07/03/24 19:11	1	
Xylenes, Total	ND		0.098	mg/Kg		07/02/24 13:17	07/03/24 19:11	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		48 - 145			07/02/24 13:17	07/03/24 19:11	1	

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		07/03/24 09:46	07/03/24 15:49	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/03/24 09:46	07/03/24 15:49	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	91		62 - 134			07/03/24 09:46	07/03/24 15:49	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	120		60	mg/Kg		07/03/24 12:45	07/03/24 21:42	20	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-13 0.0'

Lab Sample ID: 885-7239-9

Date Collected: 06/28/24 13:00

Matrix: Solid

Date Received: 07/02/24 08:03

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		07/02/24 13:17	07/03/24 19:33	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	97		35 - 166			07/02/24 13:17	07/03/24 19:33	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/02/24 13:17	07/03/24 19:33	1	
Ethylbenzene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 19:33	1	
Toluene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 19:33	1	
Xylenes, Total	ND		0.097	mg/Kg		07/02/24 13:17	07/03/24 19:33	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	90		48 - 145			07/02/24 13:17	07/03/24 19:33	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	14		9.8	mg/Kg		07/03/24 09:46	07/03/24 16:00	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		07/03/24 09:46	07/03/24 16:00	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	92		62 - 134			07/03/24 09:46	07/03/24 16:00	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	470		59	mg/Kg		07/03/24 12:45	07/03/24 21:54	20	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-13 2.0'
Date Collected: 06/28/24 13:10
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-10
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		07/02/24 13:17	07/03/24 19:55	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	92		35 - 166			07/02/24 13:17	07/03/24 19:55	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/02/24 13:17	07/03/24 19:55	1	
Ethylbenzene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 19:55	1	
Toluene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 19:55	1	
Xylenes, Total	ND		0.097	mg/Kg		07/02/24 13:17	07/03/24 19:55	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	90		48 - 145			07/02/24 13:17	07/03/24 19:55	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		07/03/24 09:46	07/03/24 16:11	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/03/24 09:46	07/03/24 16:11	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	86		62 - 134			07/03/24 09:46	07/03/24 16:11	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	170		60	mg/Kg		07/03/24 12:45	07/03/24 22:07	20	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-14 0.0'

Lab Sample ID: 885-7239-11

Date Collected: 06/28/24 13:20

Matrix: Solid

Date Received: 07/02/24 08:03

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		07/02/24 13:17	07/03/24 20:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			07/02/24 13:17	07/03/24 20:17	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		07/02/24 13:17	07/03/24 20:17	1
Ethylbenzene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 20:17	1
Toluene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 20:17	1
Xylenes, Total	ND		0.096	mg/Kg		07/02/24 13:17	07/03/24 20:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			07/02/24 13:17	07/03/24 20:17	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		9.7	mg/Kg		07/03/24 09:46	07/03/24 16:22	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		07/03/24 09:46	07/03/24 16:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			07/03/24 09:46	07/03/24 16:22	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		60	mg/Kg		07/03/24 12:45	07/03/24 22:19	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-14 2.0'

Lab Sample ID: 885-7239-12

Date Collected: 06/28/24 13:30

Matrix: Solid

Date Received: 07/02/24 08:03

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		07/02/24 13:17	07/03/24 20:38		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		35 - 166			07/02/24 13:17	07/03/24 20:38		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/02/24 13:17	07/03/24 20:38		1
Ethylbenzene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 20:38		1
Toluene	ND		0.048	mg/Kg		07/02/24 13:17	07/03/24 20:38		1
Xylenes, Total	ND		0.097	mg/Kg		07/02/24 13:17	07/03/24 20:38		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		48 - 145			07/02/24 13:17	07/03/24 20:38		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		07/03/24 09:46	07/03/24 16:33		1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/03/24 09:46	07/03/24 16:33		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	90		62 - 134			07/03/24 09:46	07/03/24 16:33		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	330		60	mg/Kg		07/03/24 12:45	07/03/24 22:31		20

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-02 4.0'

Lab Sample ID: 885-7239-13

Date Collected: 06/29/24 08:00

Matrix: Solid

Date Received: 07/02/24 08:03

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/03/24 08:25	07/08/24 10:48		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		35 - 166			07/03/24 08:25	07/08/24 10:48		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/03/24 08:25	07/08/24 10:48		1
Ethylbenzene	ND		0.049	mg/Kg		07/03/24 08:25	07/08/24 10:48		1
Toluene	ND		0.049	mg/Kg		07/03/24 08:25	07/08/24 10:48		1
Xylenes, Total	ND		0.099	mg/Kg		07/03/24 08:25	07/08/24 10:48		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		48 - 145			07/03/24 08:25	07/08/24 10:48		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	36		9.3	mg/Kg		07/03/24 14:13	07/05/24 10:03		1
Motor Oil Range Organics [C28-C40]	53		46	mg/Kg		07/03/24 14:13	07/05/24 10:03		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	103		62 - 134			07/03/24 14:13	07/05/24 10:03		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	6100		300	mg/Kg		07/05/24 15:35	07/10/24 04:40		100

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-07 4.0'
Date Collected: 06/29/24 08:10
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-14
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/03/24 08:25	07/08/24 11:54	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	97		35 - 166			07/03/24 08:25	07/08/24 11:54	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/03/24 08:25	07/08/24 11:54	1	
Ethylbenzene	ND		0.049	mg/Kg		07/03/24 08:25	07/08/24 11:54	1	
Toluene	ND		0.049	mg/Kg		07/03/24 08:25	07/08/24 11:54	1	
Xylenes, Total	ND		0.099	mg/Kg		07/03/24 08:25	07/08/24 11:54	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	97		48 - 145			07/03/24 08:25	07/08/24 11:54	1	

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		8.4	mg/Kg		07/03/24 14:13	07/05/24 10:14	1	
Motor Oil Range Organics [C28-C40]	ND		42	mg/Kg		07/03/24 14:13	07/05/24 10:14	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	103		62 - 134			07/03/24 14:13	07/05/24 10:14	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	110		60	mg/Kg		07/05/24 11:52	07/05/24 13:12	20	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-16 0.0'
Date Collected: 06/29/24 08:30
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-17
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.6	mg/Kg		07/12/24 12:16	07/13/24 17:28	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		35 - 166			07/12/24 12:16	07/13/24 17:28	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.023	mg/Kg		07/12/24 12:16	07/13/24 17:28	1	
Ethylbenzene	ND		0.046	mg/Kg		07/12/24 12:16	07/13/24 17:28	1	
Toluene	ND		0.046	mg/Kg		07/12/24 12:16	07/13/24 17:28	1	
Xylenes, Total	ND		0.092	mg/Kg		07/12/24 12:16	07/13/24 17:28	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		48 - 145			07/12/24 12:16	07/13/24 17:28	1	

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	26		9.0	mg/Kg		07/12/24 14:53	07/15/24 12:29	1	
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		07/12/24 14:53	07/15/24 12:29	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	89		62 - 134			07/12/24 14:53	07/15/24 12:29	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	610		60	mg/Kg		07/15/24 12:48	07/15/24 16:02	20	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-16 2.0'

Lab Sample ID: 885-7239-18

Date Collected: 06/29/24 08:35

Matrix: Solid

Date Received: 07/02/24 08:03

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/12/24 12:16	07/13/24 17:52		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		35 - 166			07/12/24 12:16	07/13/24 17:52		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/12/24 12:16	07/13/24 17:52		1
Ethylbenzene	ND		0.049	mg/Kg		07/12/24 12:16	07/13/24 17:52		1
Toluene	ND		0.049	mg/Kg		07/12/24 12:16	07/13/24 17:52		1
Xylenes, Total	ND		0.098	mg/Kg		07/12/24 12:16	07/13/24 17:52		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	96		48 - 145			07/12/24 12:16	07/13/24 17:52		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		07/12/24 14:53	07/15/24 12:40		1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		07/12/24 14:53	07/15/24 12:40		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	96		62 - 134			07/12/24 14:53	07/15/24 12:40		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	150		60	mg/Kg		07/15/24 12:48	07/15/24 16:39		20

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-02 5.0'
Date Collected: 06/29/24 10:30
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-19
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/03/24 08:25	07/08/24 12:59	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		35 - 166			07/03/24 08:25	07/08/24 12:59	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/03/24 08:25	07/08/24 12:59	1	
Ethylbenzene	ND		0.050	mg/Kg		07/03/24 08:25	07/08/24 12:59	1	
Toluene	ND		0.050	mg/Kg		07/03/24 08:25	07/08/24 12:59	1	
Xylenes, Total	ND		0.10	mg/Kg		07/03/24 08:25	07/08/24 12:59	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		48 - 145			07/03/24 08:25	07/08/24 12:59	1	

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		07/03/24 14:13	07/05/24 10:24	1	
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		07/03/24 14:13	07/05/24 10:24	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	97		62 - 134			07/03/24 14:13	07/05/24 10:24	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2900		150	mg/Kg		07/05/24 11:52	07/08/24 17:26	50	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-02 6.0'

Lab Sample ID: 885-7239-20

Date Collected: 06/29/24 10:40

Matrix: Solid

Date Received: 07/02/24 08:03

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/03/24 08:25	07/08/24 13:21		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		35 - 166			07/03/24 08:25	07/08/24 13:21		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/03/24 08:25	07/08/24 13:21		1
Ethylbenzene	ND		0.050	mg/Kg		07/03/24 08:25	07/08/24 13:21		1
Toluene	ND		0.050	mg/Kg		07/03/24 08:25	07/08/24 13:21		1
Xylenes, Total	ND		0.10	mg/Kg		07/03/24 08:25	07/08/24 13:21		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	88		48 - 145			07/03/24 08:25	07/08/24 13:21		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		07/03/24 14:13	07/05/24 10:35		1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		07/03/24 14:13	07/05/24 10:35		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	99		62 - 134			07/03/24 14:13	07/05/24 10:35		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2300		150	mg/Kg		07/05/24 11:52	07/08/24 17:39		50

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-02 7.0'
Date Collected: 06/29/24 11:30
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-21
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/03/24 08:25	07/08/24 13:43	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		35 - 166			07/03/24 08:25	07/08/24 13:43	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		07/03/24 08:25	07/08/24 13:43	1	
Ethylbenzene	ND		0.049	mg/Kg		07/03/24 08:25	07/08/24 13:43	1	
Toluene	ND		0.049	mg/Kg		07/03/24 08:25	07/08/24 13:43	1	
Xylenes, Total	ND		0.097	mg/Kg		07/03/24 08:25	07/08/24 13:43	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	90		48 - 145			07/03/24 08:25	07/08/24 13:43	1	

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		8.5	mg/Kg		07/03/24 14:13	07/05/24 10:46	1	
Motor Oil Range Organics [C28-C40]	ND		42	mg/Kg		07/03/24 14:13	07/05/24 10:46	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	96		62 - 134			07/03/24 14:13	07/05/24 10:46	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1300		60	mg/Kg		07/05/24 11:52	07/05/24 13:49	20	

Client Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-02 8.0'

Lab Sample ID: 885-7239-22

Date Collected: 06/29/24 11:40

Matrix: Solid

Date Received: 07/02/24 08:03

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		07/03/24 08:25	07/08/24 14:04		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		35 - 166			07/03/24 08:25	07/08/24 14:04		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		07/03/24 08:25	07/08/24 14:04		1
Ethylbenzene	ND		0.049	mg/Kg		07/03/24 08:25	07/08/24 14:04		1
Toluene	ND		0.049	mg/Kg		07/03/24 08:25	07/08/24 14:04		1
Xylenes, Total	ND		0.099	mg/Kg		07/03/24 08:25	07/08/24 14:04		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		48 - 145			07/03/24 08:25	07/08/24 14:04		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		07/03/24 14:13	07/05/24 10:56		1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		07/03/24 14:13	07/05/24 10:56		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	97		62 - 134			07/03/24 14:13	07/05/24 10:56		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1700		61	mg/Kg		07/05/24 11:52	07/05/24 14:01		20

QC Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-7806/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 7936						Prep Batch: 7806			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/02/24 13:17	07/03/24 11:30	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		35 - 166				07/02/24 13:17	07/03/24 11:30	1

Lab Sample ID: LCS 885-7806/2-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 7936						Prep Batch: 7806			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			25.0	24.5		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	206	S1+	35 - 166				07/02/24 13:17	07/03/24 11:30	1

Lab Sample ID: MB 885-7846/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 8101						Prep Batch: 7846			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/03/24 08:25	07/08/24 10:26	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166				07/03/24 08:25	07/08/24 10:26	1

Lab Sample ID: LCS 885-7846/2-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 8101						Prep Batch: 7846			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			25.0	23.2		mg/Kg		93	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	201	S1+	35 - 166				07/03/24 08:25	07/08/24 10:26	1

Lab Sample ID: 885-7239-13 MS						Client Sample ID: BH24-02 4.0'			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 8101						Prep Batch: 7846			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		24.7	21.4		mg/Kg		87	70 - 130

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QC Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-7239-13 MS
Matrix: Solid
Analysis Batch: 8101

Client Sample ID: BH24-02 4.0'
Prep Type: Total/NA
Prep Batch: 7846

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	202	S1+	35 - 166

Lab Sample ID: 885-7239-13 MSD
Matrix: Solid
Analysis Batch: 8101

Client Sample ID: BH24-02 4.0'
Prep Type: Total/NA
Prep Batch: 7846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	21.0		mg/Kg		85	70 - 130	2	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	199	S1+	35 - 166								

Lab Sample ID: MB 885-8343/1-A
Matrix: Solid
Analysis Batch: 8408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8343

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		07/12/24 12:16	07/13/24 17:05	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	98		35 - 166			07/12/24 12:16	07/13/24 17:05	1

Lab Sample ID: LCS 885-8343/2-A
Matrix: Solid
Analysis Batch: 8408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	24.0		mg/Kg		96	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	210	S1+	35 - 166				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-7806/1-A
Matrix: Solid
Analysis Batch: 7937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7806

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		07/02/24 13:17	07/03/24 11:30	1
Ethylbenzene	ND		0.050	mg/Kg		07/02/24 13:17	07/03/24 11:30	1
Toluene	ND		0.050	mg/Kg		07/02/24 13:17	07/03/24 11:30	1
Xylenes, Total	ND		0.10	mg/Kg		07/02/24 13:17	07/03/24 11:30	1

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QC Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

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

Lab Sample ID: MB 885-7806/1-A

Matrix: Solid

Analysis Batch: 7937

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7806

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	91		48 - 145	07/02/24 13:17	07/03/24 11:30	1			

Lab Sample ID: LCS 885-7806/3-A

Matrix: Solid

Analysis Batch: 7937

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7806

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	1.00	0.775		mg/Kg		77	70 - 130		
Ethylbenzene	1.00	0.847		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene	2.00	1.70		mg/Kg		85	70 - 130		
o-Xylene	1.00	0.851		mg/Kg		85	70 - 130		
Toluene	1.00	0.815		mg/Kg		82	70 - 130		
Xylenes, Total	3.00	2.55		mg/Kg		85	70 - 130		

	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		48 - 145						

Lab Sample ID: MB 885-7846/1-A

Matrix: Solid

Analysis Batch: 8102

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7846

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	ND		0.025	mg/Kg		07/03/24 08:25	07/08/24 10:26	1	
Ethylbenzene	ND		0.050	mg/Kg		07/03/24 08:25	07/08/24 10:26	1	
Toluene	ND		0.050	mg/Kg		07/03/24 08:25	07/08/24 10:26	1	
Xylenes, Total	ND		0.10	mg/Kg		07/03/24 08:25	07/08/24 10:26	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	91		48 - 145	07/03/24 08:25	07/08/24 10:26	1			

Lab Sample ID: LCS 885-7846/3-A

Matrix: Solid

Analysis Batch: 8102

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7846

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	1.00	0.922		mg/Kg		92	70 - 130		
Ethylbenzene	1.00	0.917		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene	2.00	1.84		mg/Kg		92	70 - 130		
o-Xylene	1.00	0.915		mg/Kg		91	70 - 130		
Toluene	1.00	0.922		mg/Kg		92	70 - 130		
Xylenes, Total	3.00	2.75		mg/Kg		92	70 - 130		

	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	90		48 - 145						

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QC Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

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

Lab Sample ID: 885-7239-14 MS
Matrix: Solid
Analysis Batch: 8102

Client Sample ID: BH24-07 4.0'
Prep Type: Total/NA
Prep Batch: 7846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.993	0.832		mg/Kg		84	70 - 130
Ethylbenzene	ND		0.993	0.848		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	ND		1.99	1.69		mg/Kg		85	70 - 130
o-Xylene	ND		0.993	0.857		mg/Kg		86	70 - 130
Toluene	ND		0.993	0.840		mg/Kg		85	70 - 130
Xylenes, Total	ND		2.98	2.54		mg/Kg		85	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	91		48 - 145						

Lab Sample ID: 885-7239-14 MSD
Matrix: Solid
Analysis Batch: 8102

Client Sample ID: BH24-07 4.0'
Prep Type: Total/NA
Prep Batch: 7846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.993	0.861		mg/Kg		87	70 - 130	3	20
Ethylbenzene	ND		0.993	0.858		mg/Kg		86	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.99	1.72		mg/Kg		87	70 - 130	2	20
o-Xylene	ND		0.993	0.857		mg/Kg		86	70 - 130	0	20
Toluene	ND		0.993	0.845		mg/Kg		85	70 - 130	1	20
Xylenes, Total	ND		2.98	2.58		mg/Kg		86	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		48 - 145								

Lab Sample ID: MB 885-8343/1-A
Matrix: Solid
Analysis Batch: 8409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8343

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		07/12/24 12:16	07/13/24 17:05	1
Ethylbenzene	ND		0.050	mg/Kg		07/12/24 12:16	07/13/24 17:05	1
Toluene	ND		0.050	mg/Kg		07/12/24 12:16	07/13/24 17:05	1
Xylenes, Total	ND		0.10	mg/Kg		07/12/24 12:16	07/13/24 17:05	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	93		48 - 145	07/12/24 12:16	07/13/24 17:05	1		

Lab Sample ID: LCS 885-8343/3-A
Matrix: Solid
Analysis Batch: 8409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.903		mg/Kg		90	70 - 130
Ethylbenzene	1.00	0.856		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	2.00	1.74		mg/Kg		87	70 - 130
o-Xylene	1.00	0.841		mg/Kg		84	70 - 130
Toluene	1.00	0.851		mg/Kg		85	70 - 130

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QC Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

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

Lab Sample ID: LCS 885-8343/3-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 8409				Prep Batch: 8343			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Xylenes, Total	3.00	2.58		mg/Kg		86	70 - 130
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
4-Bromofluorobenzene (Surr)	91		48 - 145				

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-7860/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 7876						Prep Batch: 7860			
	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/03/24 09:46	07/03/24 12:35	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/03/24 09:46	07/03/24 12:35	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	83		62 - 134			07/03/24 09:46	07/03/24 12:35	1	

Lab Sample ID: LCS 885-7860/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 7876				Prep Batch: 7860			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	49.3		mg/Kg		99	60 - 135
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
Di-n-octyl phthalate (Surr)	89		62 - 134				

Lab Sample ID: 885-7239-12 MS

Client Sample ID: BH24-14 2.0'

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 7876

Prep Batch: 7860

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		50.0	47.3		mg/Kg		95	44 - 136		
Surrogate	MS %Recovery	MS Qualifier	MS Limits								
Di-n-octyl phthalate (Surr)	92		62 - 134								

Lab Sample ID: 885-7239-12 MSD

Client Sample ID: BH24-14 2.0'

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 7876

Prep Batch: 7860

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Diesel Range Organics [C10-C28]	ND		49.1	48.7		mg/Kg		99	44 - 136	3	32

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QC Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-7239-12 MSD
Matrix: Solid
Analysis Batch: 7876

Client Sample ID: BH24-14 2.0'
Prep Type: Total/NA
Prep Batch: 7860

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Di-n-octyl phthalate (Surr)	99		62 - 134

Lab Sample ID: MB 885-7883/1-A
Matrix: Solid
Analysis Batch: 7925

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7883

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/03/24 14:13	07/05/24 09:42	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/03/24 14:13	07/05/24 09:42	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			07/03/24 14:13	07/05/24 09:42	1	

Lab Sample ID: LCS 885-7883/2-A
Matrix: Solid
Analysis Batch: 7925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7883

Analyte		Spike	LCS	LCS				%Rec	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics [C10-C28]		50.0	47.9		mg/Kg		96	60 - 135	
Surrogate	%Recovery	Qualifier	Limits						
Di-n-octyl phthalate (Surr)	103		62 - 134						

Lab Sample ID: MB 885-8353/1-A
Matrix: Solid
Analysis Batch: 8410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8353

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/12/24 14:53	07/15/24 11:46	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/12/24 14:53	07/15/24 11:46	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			07/12/24 14:53	07/15/24 11:46	1	

Lab Sample ID: LCS 885-8353/2-A
Matrix: Solid
Analysis Batch: 8410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8353

Analyte		Spike	LCS	LCS				%Rec	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics [C10-C28]		50.0	42.5		mg/Kg		85	60 - 135	
Surrogate	%Recovery	Qualifier	Limits						
Di-n-octyl phthalate (Surr)	82		62 - 134						

QC Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-7880/1-A

Matrix: Solid

Analysis Batch: 7895

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7880

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		07/03/24 12:45	07/03/24 16:33	1

Lab Sample ID: LCS 885-7880/2-A

Matrix: Solid

Analysis Batch: 7895

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	27.8		mg/Kg		93	90 - 110

Lab Sample ID: MB 885-7943/1-A

Matrix: Solid

Analysis Batch: 8013

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7943

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		07/05/24 11:52	07/05/24 12:30	1

Lab Sample ID: LCS 885-7943/2-A

Matrix: Solid

Analysis Batch: 8013

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	29.6		mg/Kg		99	90 - 110

Lab Sample ID: MB 885-7952/1-A

Matrix: Solid

Analysis Batch: 8024

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7952

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		07/05/24 15:35	07/05/24 17:03	1

Lab Sample ID: LCS 885-7952/2-A

Matrix: Solid

Analysis Batch: 8024

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7952

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.2		mg/Kg		94	90 - 110

Lab Sample ID: MB 885-8013/4

Matrix: Solid

Analysis Batch: 8013

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/Kg			07/05/24 10:52	1

Lab Sample ID: MRL 885-8013/3

Matrix: Solid

Analysis Batch: 8013

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.564		mg/L		113	50 - 150

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QC Sample Results

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-8025/1-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 8052					Prep Batch: 8025				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		3.0	mg/Kg		07/08/24 12:29	07/08/24 15:56	1	
Lab Sample ID: LCS 885-8025/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 8052					Prep Batch: 8025				
Analyte	Spike Added		LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	30.0		31.0		mg/Kg		103	90 - 110	
Lab Sample ID: MRL 885-8025/20-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 8052					Prep Batch: 8025				
Analyte	Spike Added		MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	3.00		3.40		mg/L		113	50 - 150	
Lab Sample ID: MB 885-8135/9					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 8135									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		0.50	mg/Kg			07/09/24 09:07	1	
Lab Sample ID: MRL 885-8135/8					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 8135									
Analyte	Spike Added		MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	0.500		0.553		mg/L		111	50 - 150	
Lab Sample ID: MB 885-8431/1-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 8467					Prep Batch: 8431				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		3.0	mg/Kg		07/15/24 12:48	07/15/24 15:37	1	
Lab Sample ID: LCS 885-8431/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 8467					Prep Batch: 8431				
Analyte	Spike Added		LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	30.0		28.2		mg/Kg		94	90 - 110	

QC Association Summary

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

GC VOA

Prep Batch: 7806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-1	BH24-09 0.0'	Total/NA	Solid	5030C	
885-7239-2	BH24-09 2.0'	Total/NA	Solid	5030C	
885-7239-3	BH24-10 0.0'	Total/NA	Solid	5030C	
885-7239-4	BH24-10 2.0'	Total/NA	Solid	5030C	
885-7239-5	BH24-11 0.0'	Total/NA	Solid	5030C	
885-7239-6	BH24-11 2.0'	Total/NA	Solid	5030C	
885-7239-7	BH24-12 0.0'	Total/NA	Solid	5030C	
885-7239-8	BH24-12 2.0'	Total/NA	Solid	5030C	
885-7239-9	BH24-13 0.0'	Total/NA	Solid	5030C	
885-7239-10	BH24-13 2.0'	Total/NA	Solid	5030C	
885-7239-11	BH24-14 0.0'	Total/NA	Solid	5030C	
885-7239-12	BH24-14 2.0'	Total/NA	Solid	5030C	
MB 885-7806/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-7806/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-7806/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 7846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-13	BH24-02 4.0'	Total/NA	Solid	5030C	
885-7239-14	BH24-07 4.0'	Total/NA	Solid	5030C	
885-7239-19	BH24-02 5.0'	Total/NA	Solid	5030C	
885-7239-20	BH24-02 6.0'	Total/NA	Solid	5030C	
885-7239-21	BH24-02 7.0'	Total/NA	Solid	5030C	
885-7239-22	BH24-02 8.0'	Total/NA	Solid	5030C	
MB 885-7846/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-7846/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-7846/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-7239-13 MS	BH24-02 4.0'	Total/NA	Solid	5030C	
885-7239-13 MSD	BH24-02 4.0'	Total/NA	Solid	5030C	
885-7239-14 MS	BH24-07 4.0'	Total/NA	Solid	5030C	
885-7239-14 MSD	BH24-07 4.0'	Total/NA	Solid	5030C	

Analysis Batch: 7936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-1	BH24-09 0.0'	Total/NA	Solid	8015M/D	7806
885-7239-2	BH24-09 2.0'	Total/NA	Solid	8015M/D	7806
885-7239-3	BH24-10 0.0'	Total/NA	Solid	8015M/D	7806
885-7239-4	BH24-10 2.0'	Total/NA	Solid	8015M/D	7806
885-7239-5	BH24-11 0.0'	Total/NA	Solid	8015M/D	7806
885-7239-6	BH24-11 2.0'	Total/NA	Solid	8015M/D	7806
885-7239-7	BH24-12 0.0'	Total/NA	Solid	8015M/D	7806
885-7239-8	BH24-12 2.0'	Total/NA	Solid	8015M/D	7806
885-7239-9	BH24-13 0.0'	Total/NA	Solid	8015M/D	7806
885-7239-10	BH24-13 2.0'	Total/NA	Solid	8015M/D	7806
885-7239-11	BH24-14 0.0'	Total/NA	Solid	8015M/D	7806
885-7239-12	BH24-14 2.0'	Total/NA	Solid	8015M/D	7806
MB 885-7806/1-A	Method Blank	Total/NA	Solid	8015M/D	7806
LCS 885-7806/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7806

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

GC VOA

Analysis Batch: 7937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-1	BH24-09 0.0'	Total/NA	Solid	8021B	7806
885-7239-2	BH24-09 2.0'	Total/NA	Solid	8021B	7806
885-7239-3	BH24-10 0.0'	Total/NA	Solid	8021B	7806
885-7239-4	BH24-10 2.0'	Total/NA	Solid	8021B	7806
885-7239-5	BH24-11 0.0'	Total/NA	Solid	8021B	7806
885-7239-6	BH24-11 2.0'	Total/NA	Solid	8021B	7806
885-7239-7	BH24-12 0.0'	Total/NA	Solid	8021B	7806
885-7239-8	BH24-12 2.0'	Total/NA	Solid	8021B	7806
885-7239-9	BH24-13 0.0'	Total/NA	Solid	8021B	7806
885-7239-10	BH24-13 2.0'	Total/NA	Solid	8021B	7806
885-7239-11	BH24-14 0.0'	Total/NA	Solid	8021B	7806
885-7239-12	BH24-14 2.0'	Total/NA	Solid	8021B	7806
MB 885-7806/1-A	Method Blank	Total/NA	Solid	8021B	7806
LCS 885-7806/3-A	Lab Control Sample	Total/NA	Solid	8021B	7806

Analysis Batch: 8101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-13	BH24-02 4.0'	Total/NA	Solid	8015M/D	7846
885-7239-14	BH24-07 4.0'	Total/NA	Solid	8015M/D	7846
885-7239-19	BH24-02 5.0'	Total/NA	Solid	8015M/D	7846
885-7239-20	BH24-02 6.0'	Total/NA	Solid	8015M/D	7846
885-7239-21	BH24-02 7.0'	Total/NA	Solid	8015M/D	7846
885-7239-22	BH24-02 8.0'	Total/NA	Solid	8015M/D	7846
MB 885-7846/1-A	Method Blank	Total/NA	Solid	8015M/D	7846
LCS 885-7846/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7846
885-7239-13 MS	BH24-02 4.0'	Total/NA	Solid	8015M/D	7846
885-7239-13 MSD	BH24-02 4.0'	Total/NA	Solid	8015M/D	7846

Analysis Batch: 8102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-13	BH24-02 4.0'	Total/NA	Solid	8021B	7846
885-7239-14	BH24-07 4.0'	Total/NA	Solid	8021B	7846
885-7239-19	BH24-02 5.0'	Total/NA	Solid	8021B	7846
885-7239-20	BH24-02 6.0'	Total/NA	Solid	8021B	7846
885-7239-21	BH24-02 7.0'	Total/NA	Solid	8021B	7846
885-7239-22	BH24-02 8.0'	Total/NA	Solid	8021B	7846
MB 885-7846/1-A	Method Blank	Total/NA	Solid	8021B	7846
LCS 885-7846/3-A	Lab Control Sample	Total/NA	Solid	8021B	7846
885-7239-14 MS	BH24-07 4.0'	Total/NA	Solid	8021B	7846
885-7239-14 MSD	BH24-07 4.0'	Total/NA	Solid	8021B	7846

Prep Batch: 8343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-17	BH24-16 0.0'	Total/NA	Solid	5030C	
885-7239-18	BH24-16 2.0'	Total/NA	Solid	5030C	
MB 885-8343/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-8343/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-8343/3-A	Lab Control Sample	Total/NA	Solid	5030C	

QC Association Summary

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

GC VOA

Analysis Batch: 8408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-17	BH24-16 0.0'	Total/NA	Solid	8015M/D	8343
885-7239-18	BH24-16 2.0'	Total/NA	Solid	8015M/D	8343
MB 885-8343/1-A	Method Blank	Total/NA	Solid	8015M/D	8343
LCS 885-8343/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	8343

Analysis Batch: 8409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-17	BH24-16 0.0'	Total/NA	Solid	8021B	8343
885-7239-18	BH24-16 2.0'	Total/NA	Solid	8021B	8343
MB 885-8343/1-A	Method Blank	Total/NA	Solid	8021B	8343
LCS 885-8343/3-A	Lab Control Sample	Total/NA	Solid	8021B	8343

GC Semi VOA

Prep Batch: 7860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-1	BH24-09 0.0'	Total/NA	Solid	SHAKE	
885-7239-2	BH24-09 2.0'	Total/NA	Solid	SHAKE	
885-7239-3	BH24-10 0.0'	Total/NA	Solid	SHAKE	
885-7239-4	BH24-10 2.0'	Total/NA	Solid	SHAKE	
885-7239-5	BH24-11 0.0'	Total/NA	Solid	SHAKE	
885-7239-6	BH24-11 2.0'	Total/NA	Solid	SHAKE	
885-7239-7	BH24-12 0.0'	Total/NA	Solid	SHAKE	
885-7239-8	BH24-12 2.0'	Total/NA	Solid	SHAKE	
885-7239-9	BH24-13 0.0'	Total/NA	Solid	SHAKE	
885-7239-10	BH24-13 2.0'	Total/NA	Solid	SHAKE	
885-7239-11	BH24-14 0.0'	Total/NA	Solid	SHAKE	
885-7239-12	BH24-14 2.0'	Total/NA	Solid	SHAKE	
MB 885-7860/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-7860/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-7239-12 MS	BH24-14 2.0'	Total/NA	Solid	SHAKE	
885-7239-12 MSD	BH24-14 2.0'	Total/NA	Solid	SHAKE	

Analysis Batch: 7876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-1	BH24-09 0.0'	Total/NA	Solid	8015M/D	7860
885-7239-2	BH24-09 2.0'	Total/NA	Solid	8015M/D	7860
885-7239-3	BH24-10 0.0'	Total/NA	Solid	8015M/D	7860
885-7239-4	BH24-10 2.0'	Total/NA	Solid	8015M/D	7860
885-7239-5	BH24-11 0.0'	Total/NA	Solid	8015M/D	7860
885-7239-6	BH24-11 2.0'	Total/NA	Solid	8015M/D	7860
885-7239-7	BH24-12 0.0'	Total/NA	Solid	8015M/D	7860
885-7239-8	BH24-12 2.0'	Total/NA	Solid	8015M/D	7860
885-7239-9	BH24-13 0.0'	Total/NA	Solid	8015M/D	7860
885-7239-10	BH24-13 2.0'	Total/NA	Solid	8015M/D	7860
885-7239-11	BH24-14 0.0'	Total/NA	Solid	8015M/D	7860
885-7239-12	BH24-14 2.0'	Total/NA	Solid	8015M/D	7860
MB 885-7860/1-A	Method Blank	Total/NA	Solid	8015M/D	7860
LCS 885-7860/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7860
885-7239-12 MS	BH24-14 2.0'	Total/NA	Solid	8015M/D	7860
885-7239-12 MSD	BH24-14 2.0'	Total/NA	Solid	8015M/D	7860

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

GC Semi VOA

Prep Batch: 7883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-13	BH24-02 4.0'	Total/NA	Solid	SHAKE	
885-7239-14	BH24-07 4.0'	Total/NA	Solid	SHAKE	
885-7239-19	BH24-02 5.0'	Total/NA	Solid	SHAKE	
885-7239-20	BH24-02 6.0'	Total/NA	Solid	SHAKE	
885-7239-21	BH24-02 7.0'	Total/NA	Solid	SHAKE	
885-7239-22	BH24-02 8.0'	Total/NA	Solid	SHAKE	
MB 885-7883/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-7883/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 7925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-13	BH24-02 4.0'	Total/NA	Solid	8015M/D	7883
885-7239-14	BH24-07 4.0'	Total/NA	Solid	8015M/D	7883
885-7239-19	BH24-02 5.0'	Total/NA	Solid	8015M/D	7883
885-7239-20	BH24-02 6.0'	Total/NA	Solid	8015M/D	7883
885-7239-21	BH24-02 7.0'	Total/NA	Solid	8015M/D	7883
885-7239-22	BH24-02 8.0'	Total/NA	Solid	8015M/D	7883
MB 885-7883/1-A	Method Blank	Total/NA	Solid	8015M/D	7883
LCS 885-7883/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7883

Prep Batch: 8353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-17	BH24-16 0.0'	Total/NA	Solid	SHAKE	
885-7239-18	BH24-16 2.0'	Total/NA	Solid	SHAKE	
MB 885-8353/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-8353/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 8410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-17	BH24-16 0.0'	Total/NA	Solid	8015M/D	8353
885-7239-18	BH24-16 2.0'	Total/NA	Solid	8015M/D	8353
MB 885-8353/1-A	Method Blank	Total/NA	Solid	8015M/D	8353
LCS 885-8353/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	8353

HPLC/IC

Prep Batch: 7880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-1	BH24-09 0.0'	Total/NA	Solid	300_Prep	
885-7239-2	BH24-09 2.0'	Total/NA	Solid	300_Prep	
885-7239-3	BH24-10 0.0'	Total/NA	Solid	300_Prep	
885-7239-4	BH24-10 2.0'	Total/NA	Solid	300_Prep	
885-7239-5	BH24-11 0.0'	Total/NA	Solid	300_Prep	
885-7239-6	BH24-11 2.0'	Total/NA	Solid	300_Prep	
885-7239-7	BH24-12 0.0'	Total/NA	Solid	300_Prep	
885-7239-8	BH24-12 2.0'	Total/NA	Solid	300_Prep	
885-7239-9	BH24-13 0.0'	Total/NA	Solid	300_Prep	
885-7239-10	BH24-13 2.0'	Total/NA	Solid	300_Prep	
885-7239-11	BH24-14 0.0'	Total/NA	Solid	300_Prep	
885-7239-12	BH24-14 2.0'	Total/NA	Solid	300_Prep	
MB 885-7880/1-A	Method Blank	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

HPLC/IC (Continued)

Prep Batch: 7880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-7880/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 7895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-5	BH24-11 0.0'	Total/NA	Solid	300.0	7880
885-7239-6	BH24-11 2.0'	Total/NA	Solid	300.0	7880
885-7239-7	BH24-12 0.0'	Total/NA	Solid	300.0	7880
885-7239-8	BH24-12 2.0'	Total/NA	Solid	300.0	7880
885-7239-9	BH24-13 0.0'	Total/NA	Solid	300.0	7880
885-7239-10	BH24-13 2.0'	Total/NA	Solid	300.0	7880
885-7239-11	BH24-14 0.0'	Total/NA	Solid	300.0	7880
885-7239-12	BH24-14 2.0'	Total/NA	Solid	300.0	7880
MB 885-7880/1-A	Method Blank	Total/NA	Solid	300.0	7880
LCS 885-7880/2-A	Lab Control Sample	Total/NA	Solid	300.0	7880

Prep Batch: 7943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-14	BH24-07 4.0'	Total/NA	Solid	300_Prep	
885-7239-19	BH24-02 5.0'	Total/NA	Solid	300_Prep	
885-7239-20	BH24-02 6.0'	Total/NA	Solid	300_Prep	
885-7239-21	BH24-02 7.0'	Total/NA	Solid	300_Prep	
885-7239-22	BH24-02 8.0'	Total/NA	Solid	300_Prep	
MB 885-7943/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-7943/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 7952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-13	BH24-02 4.0'	Total/NA	Solid	300_Prep	
MB 885-7952/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-7952/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 8013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-14	BH24-07 4.0'	Total/NA	Solid	300.0	7943
885-7239-21	BH24-02 7.0'	Total/NA	Solid	300.0	7943
885-7239-22	BH24-02 8.0'	Total/NA	Solid	300.0	7943
MB 885-7943/1-A	Method Blank	Total/NA	Solid	300.0	7943
MB 885-8013/4	Method Blank	Total/NA	Solid	300.0	
LCS 885-7943/2-A	Lab Control Sample	Total/NA	Solid	300.0	7943
MRL 885-8013/3	Lab Control Sample	Total/NA	Solid	300.0	

Analysis Batch: 8024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-1	BH24-09 0.0'	Total/NA	Solid	300.0	7880
885-7239-2	BH24-09 2.0'	Total/NA	Solid	300.0	7880
885-7239-3	BH24-10 0.0'	Total/NA	Solid	300.0	7880
MB 885-7952/1-A	Method Blank	Total/NA	Solid	300.0	7952
LCS 885-7952/2-A	Lab Control Sample	Total/NA	Solid	300.0	7952

QC Association Summary

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

HPLC/IC

Prep Batch: 8025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-8025/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-8025/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
MRL 885-8025/20-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 8052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-4	BH24-10 2.0'	Total/NA	Solid	300.0	7880
885-7239-19	BH24-02 5.0'	Total/NA	Solid	300.0	7943
885-7239-20	BH24-02 6.0'	Total/NA	Solid	300.0	7943
MB 885-8025/1-A	Method Blank	Total/NA	Solid	300.0	8025
LCS 885-8025/2-A	Lab Control Sample	Total/NA	Solid	300.0	8025
MRL 885-8025/20-A	Lab Control Sample	Total/NA	Solid	300.0	8025

Analysis Batch: 8135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-13	BH24-02 4.0'	Total/NA	Solid	300.0	7952
MB 885-8135/9	Method Blank	Total/NA	Solid	300.0	
MRL 885-8135/8	Lab Control Sample	Total/NA	Solid	300.0	

Prep Batch: 8431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-17	BH24-16 0.0'	Total/NA	Solid	300_Prep	
885-7239-18	BH24-16 2.0'	Total/NA	Solid	300_Prep	
MB 885-8431/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-8431/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 8467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7239-17	BH24-16 0.0'	Total/NA	Solid	300.0	8431
885-7239-18	BH24-16 2.0'	Total/NA	Solid	300.0	8431
MB 885-8431/1-A	Method Blank	Total/NA	Solid	300.0	8431
LCS 885-8431/2-A	Lab Control Sample	Total/NA	Solid	300.0	8431

Lab Chronicle

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-09 0.0'
Date Collected: 06/28/24 08:35
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 16:15
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 16:15
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 14:33
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		100	8024	JT	EET ALB	07/05/24 15:49

Client Sample ID: BH24-09 2.0'
Date Collected: 06/28/24 08:40
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 16:37
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 16:37
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 14:44
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		50	8024	JT	EET ALB	07/05/24 16:02

Client Sample ID: BH24-10 0.0'
Date Collected: 06/28/24 08:45
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 17:21
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 17:21
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 14:55
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		100	8024	JT	EET ALB	07/05/24 16:39

Client Sample ID: BH24-10 2.0'
Date Collected: 06/28/24 08:50
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 17:43

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-10 2.0'
Date Collected: 06/28/24 08:50
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 17:43
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 15:05
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		50	8052	JT	EET ALB	07/08/24 16:47

Client Sample ID: BH24-11 0.0'
Date Collected: 06/28/24 09:00
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 18:05
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 18:05
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 15:16
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		20	7895	MA	EET ALB	07/03/24 21:05

Client Sample ID: BH24-11 2.0'
Date Collected: 06/28/24 09:05
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 18:27
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 18:27
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 15:27
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		20	7895	MA	EET ALB	07/03/24 21:17

Client Sample ID: BH24-12 0.0'
Date Collected: 06/28/24 09:15
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 18:49
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 18:49

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-12 0.0'
Date Collected: 06/28/24 09:15
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 15:38
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		20	7895	MA	EET ALB	07/03/24 21:30

Client Sample ID: BH24-12 2.0'
Date Collected: 06/28/24 09:20
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 19:11
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 19:11
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 15:49
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		20	7895	MA	EET ALB	07/03/24 21:42

Client Sample ID: BH24-13 0.0'
Date Collected: 06/28/24 13:00
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 19:33
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 19:33
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 16:00
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		20	7895	MA	EET ALB	07/03/24 21:54

Client Sample ID: BH24-13 2.0'
Date Collected: 06/28/24 13:10
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 19:55
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 19:55
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 16:11

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-13 2.0'
Date Collected: 06/28/24 13:10
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		20	7895	MA	EET ALB	07/03/24 22:07

Client Sample ID: BH24-14 0.0'
Date Collected: 06/28/24 13:20
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 20:17
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 20:17
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 16:22
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		20	7895	MA	EET ALB	07/03/24 22:19

Client Sample ID: BH24-14 2.0'
Date Collected: 06/28/24 13:30
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8015M/D		1	7936	AT	EET ALB	07/03/24 20:38
Total/NA	Prep	5030C			7806	AT	EET ALB	07/02/24 13:17
Total/NA	Analysis	8021B		1	7937	AT	EET ALB	07/03/24 20:38
Total/NA	Prep	SHAKE			7860	KR	EET ALB	07/03/24 09:46
Total/NA	Analysis	8015M/D		1	7876	PD	EET ALB	07/03/24 16:33
Total/NA	Prep	300_Prep			7880	RC	EET ALB	07/03/24 12:45
Total/NA	Analysis	300.0		20	7895	MA	EET ALB	07/03/24 22:31

Client Sample ID: BH24-02 4.0'
Date Collected: 06/29/24 08:00
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7846	AT	EET ALB	07/03/24 08:25
Total/NA	Analysis	8015M/D		1	8101	RA	EET ALB	07/08/24 10:48
Total/NA	Prep	5030C			7846	AT	EET ALB	07/03/24 08:25
Total/NA	Analysis	8021B		1	8102	RA	EET ALB	07/08/24 10:48
Total/NA	Prep	SHAKE			7883	DH	EET ALB	07/03/24 14:13
Total/NA	Analysis	8015M/D		1	7925	KR	EET ALB	07/05/24 10:03
Total/NA	Prep	300_Prep			7952	JT	EET ALB	07/05/24 15:35
Total/NA	Analysis	300.0		100	8135	JT	EET ALB	07/10/24 04:40

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-07 4.0'
Date Collected: 06/29/24 08:10
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7846	AT	EET ALB	07/03/24 08:25
Total/NA	Analysis	8015M/D		1	8101	RA	EET ALB	07/08/24 11:54
Total/NA	Prep	5030C			7846	AT	EET ALB	07/03/24 08:25
Total/NA	Analysis	8021B		1	8102	RA	EET ALB	07/08/24 11:54
Total/NA	Prep	SHAKE			7883	DH	EET ALB	07/03/24 14:13
Total/NA	Analysis	8015M/D		1	7925	KR	EET ALB	07/05/24 10:14
Total/NA	Prep	300_Prep			7943	JT	EET ALB	07/05/24 11:52
Total/NA	Analysis	300.0		20	8013	JT	EET ALB	07/05/24 13:12

Client Sample ID: BH24-16 0.0'
Date Collected: 06/29/24 08:30
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8343	JP	EET ALB	07/12/24 12:16
Total/NA	Analysis	8015M/D		1	8408	JP	EET ALB	07/13/24 17:28
Total/NA	Prep	5030C			8343	JP	EET ALB	07/12/24 12:16
Total/NA	Analysis	8021B		1	8409	JP	EET ALB	07/13/24 17:28
Total/NA	Prep	SHAKE			8353	KR	EET ALB	07/12/24 14:53
Total/NA	Analysis	8015M/D		1	8410	KR	EET ALB	07/15/24 12:29
Total/NA	Prep	300_Prep			8431	EH	EET ALB	07/15/24 12:48
Total/NA	Analysis	300.0		20	8467	RC	EET ALB	07/15/24 16:02

Client Sample ID: BH24-16 2.0'
Date Collected: 06/29/24 08:35
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8343	JP	EET ALB	07/12/24 12:16
Total/NA	Analysis	8015M/D		1	8408	JP	EET ALB	07/13/24 17:52
Total/NA	Prep	5030C			8343	JP	EET ALB	07/12/24 12:16
Total/NA	Analysis	8021B		1	8409	JP	EET ALB	07/13/24 17:52
Total/NA	Prep	SHAKE			8353	KR	EET ALB	07/12/24 14:53
Total/NA	Analysis	8015M/D		1	8410	KR	EET ALB	07/15/24 12:40
Total/NA	Prep	300_Prep			8431	EH	EET ALB	07/15/24 12:48
Total/NA	Analysis	300.0		20	8467	RC	EET ALB	07/15/24 16:39

Client Sample ID: BH24-02 5.0'
Date Collected: 06/29/24 10:30
Date Received: 07/02/24 08:03

Lab Sample ID: 885-7239-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7846	AT	EET ALB	07/03/24 08:25
Total/NA	Analysis	8015M/D		1	8101	RA	EET ALB	07/08/24 12:59

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-02 5.0'

Lab Sample ID: 885-7239-19

Date Collected: 06/29/24 10:30

Matrix: Solid

Date Received: 07/02/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7846	AT	EET ALB	07/03/24 08:25
Total/NA	Analysis	8021B		1	8102	RA	EET ALB	07/08/24 12:59
Total/NA	Prep	SHAKE			7883	DH	EET ALB	07/03/24 14:13
Total/NA	Analysis	8015M/D		1	7925	KR	EET ALB	07/05/24 10:24
Total/NA	Prep	300_Prep			7943	JT	EET ALB	07/05/24 11:52
Total/NA	Analysis	300.0		50	8052	JT	EET ALB	07/08/24 17:26

Client Sample ID: BH24-02 6.0'

Lab Sample ID: 885-7239-20

Date Collected: 06/29/24 10:40

Matrix: Solid

Date Received: 07/02/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7846	AT	EET ALB	07/03/24 08:25
Total/NA	Analysis	8015M/D		1	8101	RA	EET ALB	07/08/24 13:21
Total/NA	Prep	5030C			7846	AT	EET ALB	07/03/24 08:25
Total/NA	Analysis	8021B		1	8102	RA	EET ALB	07/08/24 13:21
Total/NA	Prep	SHAKE			7883	DH	EET ALB	07/03/24 14:13
Total/NA	Analysis	8015M/D		1	7925	KR	EET ALB	07/05/24 10:35
Total/NA	Prep	300_Prep			7943	JT	EET ALB	07/05/24 11:52
Total/NA	Analysis	300.0		50	8052	JT	EET ALB	07/08/24 17:39

Client Sample ID: BH24-02 7.0'

Lab Sample ID: 885-7239-21

Date Collected: 06/29/24 11:30

Matrix: Solid

Date Received: 07/02/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7846	AT	EET ALB	07/03/24 08:25
Total/NA	Analysis	8015M/D		1	8101	RA	EET ALB	07/08/24 13:43
Total/NA	Prep	5030C			7846	AT	EET ALB	07/03/24 08:25
Total/NA	Analysis	8021B		1	8102	RA	EET ALB	07/08/24 13:43
Total/NA	Prep	SHAKE			7883	DH	EET ALB	07/03/24 14:13
Total/NA	Analysis	8015M/D		1	7925	KR	EET ALB	07/05/24 10:46
Total/NA	Prep	300_Prep			7943	JT	EET ALB	07/05/24 11:52
Total/NA	Analysis	300.0		20	8013	JT	EET ALB	07/05/24 13:49

Client Sample ID: BH24-02 8.0'

Lab Sample ID: 885-7239-22

Date Collected: 06/29/24 11:40

Matrix: Solid

Date Received: 07/02/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7846	AT	EET ALB	07/03/24 08:25
Total/NA	Analysis	8015M/D		1	8101	RA	EET ALB	07/08/24 14:04
Total/NA	Prep	5030C			7846	AT	EET ALB	07/03/24 08:25
Total/NA	Analysis	8021B		1	8102	RA	EET ALB	07/08/24 14:04

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Client Sample ID: BH24-02 8.0'

Lab Sample ID: 885-7239-22

Date Collected: 06/29/24 11:40

Matrix: Solid

Date Received: 07/02/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			7883	DH	EET ALB	07/03/24 14:13
Total/NA	Analysis	8015M/D		1	7925	KR	EET ALB	07/05/24 10:56
Total/NA	Prep	300_Prep			7943	JT	EET ALB	07/05/24 11:52
Total/NA	Analysis	300.0		20	8013	JT	EET ALB	07/05/24 14:01

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex
Project/Site: JRU D1 1A CTB

Job ID: 885-7239-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Vertex

(XTO Energy)

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard☒ Rush 5-day

Project Name:

SRU DI IACTB

Project #:

23E-04616

Project Manager:

Sally Carttar

Sampler: AL

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CFV): 0 to 0.6 (°C)

Date Time Matrix Sample Name

6/28/24 0835 Soil BH24-09 0.0'

0840 BH24-09 2.0'

0845 BH24-10 0.0'

0850 BH24-10 2.0'

0900 BH24-11 0.0'

0905 BH24-11 2.0'

0915 BH24-12 0.0'

0920 BH24-12 2.0'

1300 BH24-13 0.0'

1310 BH24-13 2.0'

1320 BH24-14 0.0'

1330 BH24-14 2.0'

Date Time Relinquished by

Date Time Relinquished by

Received by

Date Time

Via

Date Time

Remarks: Bill direct to XTO Energy

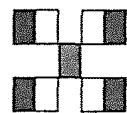
NAPP 2411739118

Cost Center # 1082151001

cc: scarttar@vertex.ca

ALUdrik@vertex.ca

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

HALL ENVIR
ANALYSIS L

www.hallenvironmental.com 885-7239 COC

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

8081 Pesticides/8082 PCB's

TPH/8015D(GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

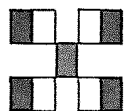
8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chain-of-Custody Record

Client: <u>Vertex</u>		Turn-Around Time: ☒ Standard ☒ Rush <u>5-day</u>	
Project Name: <u>(XTO Energy)</u>		Project Name: <u>JRU D1 1A CTB</u>	
Mailing Address: <u>On File</u>		Project #: <u>23E-04616</u>	
Phone #: <u> </u>		Project Manager: <u>Sally Carttar</u>	
email or Fax#: <u> </u>		Sampler: <u>AL</u>	
QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)		On Ice: ☒ Yes ☐ No	
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other		# of Coolers: <u>1</u>	
☐ EDD (Type) <u> </u>		Cooler Temp (including cp): <u>0-7-0-1-0-0 (°C)</u>	
Date	Time	Matrix	Sample Name
6.29.24	0800	Soil	BH24-02 4.0
↓	0810	↓	BH24-07 4.0
↓	0815	↓	BH24-15 0.0
↓	0820	↓	BH24-15 2.0
↓	0830	↓	BH24-16 0.0
↓	0835	↓	BH24-16 2.0
↓	1030	↓	BH24-02 5.0
↓	1040	↓	BH24-02 6.0
↓	1130	↓	BH24-02 7.0
↓	1140	↓	BH24-02 8.0
Relinquished by: <u> </u>		Received by: <u> </u>	
Date: <u> </u>	Time: <u> </u>	Date: <u> </u>	Time: <u> </u>
Date: <u> </u>	Time: <u> </u>	Date: <u> </u>	Time: <u> </u>


**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

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Analysis Request

☒ PFAS (Method 504.1)
☒ EDB (Method 504.1)
☒ PAHs by 8310 or 8270SIMS
☒ RCRA 8 Metals
☒ Cl, F, Br, NO₃, NO₂, PO₄, SO₄
☒ 8260 (VOA)
☒ 8270 (Semi-VOA)
☒ Total Coliform (Present/Absent)

Remarks: Bill direct to XTO Energy

NAPP 2411739118

cost center # 1082151001

cc: scatter@vertex.ca Aludvik@vertex.ca

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-7239-1

Login Number: 7239

List Number: 1

Creator: McQuiston, Steven

List Source: Eurofins Albuquerque

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").	True	

ATTACHMENT 6

Location:	JRU DI 1A Battery	
Spill Date:	4/9/2024	
Area 1		
Approximate Area =	816.00	sq. ft.
Average Saturation (or depth) of spill =	8.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	14.53	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	14.53	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	0.00	bbls

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 338029

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 338029
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2411739118
Incident Name	NAPP2411739118 JRU DI 1A BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	JRU DI 1A BATTERY
Date Release Discovered	04/09/2024
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: Corrosion Pipeline (Any) Produced Water Released: 15 BBL Recovered: 0 BBL Lost: 15 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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QUESTIONS, Page 2

Action 338029

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	338029
Action Type:	
[C-141] Initial C-141 (C-141-v-Initial)	

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. 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 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.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 04/26/2024
--	--

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QUESTIONS, Page 3

Action 338029

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 338029
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
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	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

Remediation Plan

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.

Requesting a remediation plan approval with this submission	No
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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CONDITIONS

Action 338029

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 338029
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	4/26/2024

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QUESTIONS

Action 386496

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	386496
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2411739118
Incident Name	NAPP2411739118 JRU DI 1A BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source

Please answer all the questions in this group.

Site Name	JRU DI 1A BATTERY
Date Release Discovered	04/09/2024
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: Corrosion Pipeline (Any) Produced Water Released: 15 BBL Recovered: 0 BBL Lost: 15 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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QUESTIONS, Page 2

Action 386496

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	386496
	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. 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 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.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/24/2024
--	--

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QUESTIONS, Page 3

Action 386496

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	386496
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 26 and 50 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
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 500 and 1000 (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	Between 1 and 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 ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 100 (ft.)
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	No

Remediation Plan

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.

Requesting a remediation plan approval with this submission	Yes
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 Cl B)	12000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	89
GRO+DRO	(EPA SW-846 Method 8015M)	36
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	10/01/2024
On what date will (or did) the final sampling or liner inspection occur	12/31/2024
On what date will (or was) the remediation complete(d)	12/31/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1291
What is the estimated volume (in cubic yards) that will be remediated	95

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 386496

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	386496
	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	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
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	Not answered.
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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/24/2024
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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
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 5

Action 386496

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 386496
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 386496

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 386496
	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.}

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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CONDITIONS

Action 386496

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	386496
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Before we can approve a deferral, the area requested for deferral must be fully delineated. This would require vertical and horizontal delineation of the requested deferral area. If equipment is hindering the vertical delineation process, take a soil sample as close as possible to the equipment, but out of harm's way so that vertical delineation can be met. If horizontal delineation samples on pad eventually reach a mechanical barrier, (such as pipeline, battery, equipment) sample(s) should be obtained as near as possible on the linear opposite side of said barrier and as close as possible to barrier.	10/23/2024
rhamlet	Only sample points on pad that require a major facility deconstruction will be deferred. Continue to remove contaminants safely with alternative methods. If you believe a certain area will require a deferral, please make sure that it has been fully delineated and specify the exact soil sample location. The OCD needs to see that every measure has been taken to remediate the release before a deferral can be granted. After all possible contaminated soil has been removed, a formal deferral request will need to be uploaded to the OCD payment portal for review.	10/23/2024