

January 21, 2025

New Mexico Energy Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Deferral Request
JRU DI 1A Battery
Incident Number nAPP2411739118
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document assessment, delineation, excavation, and soil sampling activities at the JRU DI 1A Battery (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2411739118 until the Site is reconstructed, and/or the well pad is abandoned.

RELEASE SUMMARY AND SITE BACKGROUND

The Site is located in Unit F, Section 21, Township 22 South, Range 30 East, in Eddy County, New Mexico (32.379905°, -103.886691°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On April 9, 2024, internal corrosion on a produced water pipeline resulted in the release of approximately 14.53 barrels (bbls) of produced water onto the surface of the well pad and around active production equipment and process piping. No fluids were recovered. XTO submitted an Initial C-141 Application (C-141) to the New Mexico Oil Conservation Division (NMOCD) on April 26, 2024. The release was assigned Incident Number nAPP2411739118.

Vertex Resource Group (Vertex) conducted Site assessment and delineation activities and presented the results in a *Remediation Work Plan* (*Work Plan*). The *Work Plan* was submitted to the NMOCD on September 24, 2024, and was approved by the NMOCD on October 23, 2024. The *Work Plan* proposed to conduct excavation utilizing hand tools in all areas except the northeastern corner of the release, near borehole BH24-09. Delineation soil samples BH24-01 through BH24-04, BH24-06 through BH24-10, and BH24-16 were advanced within the release extent area. Based on laboratory analytical results for the delineation soil samples, an estimated 95 cubic yards of impacted soil was anticipated to be removed in several areas totaling approximately 400 square-feet to a total depth of 1-foot bgs in all areas except for the northeast corner, which indicated soil impacts existed beyond 2 feet bgs. Delineation soil samples BH24-05, and BH24-11 through BH24-14 were collected around the release extent and laboratory analytical results for all lateral soil samples indicated all constituents of concern (COC) concentrations were below the proposed Closure Criteria, and thus fully defined the edge of the release. Analytical

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

XTO Energy, Inc. Deferral Request JRU DI 1A Battery

results for all soil samples collected within the release extent indicated impacted soil exists at depths ranging from ground surface to 8 feet bgs. Delineation soil sample locations are depicted on Figure 2 in the approved *Work Plan* report provided in Appendix A.

Following delineation activities, excavation activities were conducted to remove impacted soil. Due to the release area being surrounded by active production equipment and pipelines, the majority of the release area is inaccessible which resulted in multiple excavation extents to remove as much impacted soil as possible. Inaccessible areas include borehole locations BH24-02 through BH24-04, and BH24-10.

The final excavation extents measured approximately 385 square feet in total. A total of approximately 20 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Halfway Disposal and Landfill in Hobbs, New Mexico. Impacted soil disposal manifests are provided in Appendix F.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. In March 2013, a New Mexico Office of the State Engineer (NMOSE) permitted well (C-1916) was advanced to a depth of 188 feet bgs located approximately 0.2 miles southeast of the Site and is depicted on Figure 1. Depth to groundwater is documented to be 110 feet bgs. The well was plugged in 2013 and the Plugging Record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a dry wash located approximately 581 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area).

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

ADDITIONAL DELINEATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

On December 2, 2024, Ensolum arrived onsite to conduct additional delineation confirmation soil sampling activities. Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Ten confirmation



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floor soil samples (FS01 through FS10) and ten confirmation sidewall soil samples (SW01 through SW10) were collected from the floors and sidewalls of each excavation extent. Floor soil sample FS01 was collected at a depth of 4 feet bgs, all other floor soil samples were collected at 1-foot bgs. Sidewall soil sample SW01 was collected at depths ranging from ground surface to 4 feet bgs, and all other sidewall soil samples were collected from ground surface to 1-foot bgs.

In an effort to define vertical impacts to soil discovered from the June 2024 delineation soil sampling event, Ensolum advanced two boreholes (BH01 and BH02) within the release area. Borehole BH01 was advanced to a terminal depth of 9 feet bgs and BH02 was advanced to a terminal depth of 4 feet bgs. Soil was field screened within each borehole at every foot until field screening results indicated soil concentrations were below Closure Criteria. Ensolum personnel screened soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chlorides utilizing Hach® chloride QuanTab® test strips. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. Discrete delineation soil samples were collected in each borehole at the highest field screening and the terminal depth of the borehole. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation of the Site activities is presented on a Photographic Log in Appendix D.

All soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following COCs: BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated chloride concentrations exceeded Closure Criteria for delineation soil samples BH24-06 at 2 feet bgs, BH24-07 at 2 feet bgs, BH24-08 at 2 feet bgs, and all samples collected in boreholes BH24-02, BH24-03, BH24-04, BH24-10. Delineation soil samples indicating chloride concentrations exceeded Closure Criteria but were removed by excavation activities include BH24-01, BH24-06, BH24-07, BH24-08, and BH24-16 all collected at ground surface, BH24-09 collected at ground surface and 2 feet bgs, and BH01 and BH02 collected at 1-foot bgs. All other delineation soil samples collected indicated all COC concentrations were below Closure Criteria.

Laboratory analytical results indicated chloride concentrations exceeded Closure Criteria for confirmation soil samples FS02 through FS05, and SW02 through SW05. All other confirmation soil samples collected indicated all COC concentrations were below Closure Criteria. Laboratory analytical results are summarized on Table 1, and the complete laboratory analytical reports are included in Appendix E.

DEFFERAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment and process piping preventing full excavation of impacted soil. The estimated area of remaining impacted soil measures approximately 1,760 square feet and a total of approximately 320 cubic yards of chloride impacted soil remains in place, assuming depths of 4 feet bgs near sample locations BH24-07/FS05, and 9 feet bgs in the remaining proposed deferral area. The impacted soil is limited to the area beneath active production equipment and surface piping, where remediation would require a major facility deconstruction. The deferral area has been vertically delineated by delineation soil samples BH01A at



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9 feet bgs, BH02A at 4 feet bgs, and BH24-07 at 4 feet bgs. The deferral area has been laterally delineated by delineation soil samples BH24-05, and BH24-11 through BH24-14 and confirmation sidewall soil samples SW01, and SW06 through SW10. The deferral area and all delineation and excavation soil samples used to define the deferral area are depicted on Figure 4.

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet, and the entirety of the release remained on pad. Based on the presence of active production equipment and process piping within the release area and the complete lateral and vertical definition of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number nAPP2411739118 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely, **Ensolum**, **LLC**

Tacoma Morrissey Associate Principal, Geologist

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

ashley L. ager

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations Figure 3 Excavation Soil Sample Locations

Figure 4 Deferral Area Map

Table 1 Soil Sample Analytical Results

Appendix A August 3, 2024 Remediation Work Plan

Appendix B Referenced Well Records
Appendix C Lithologic / Soil Sampling Logs

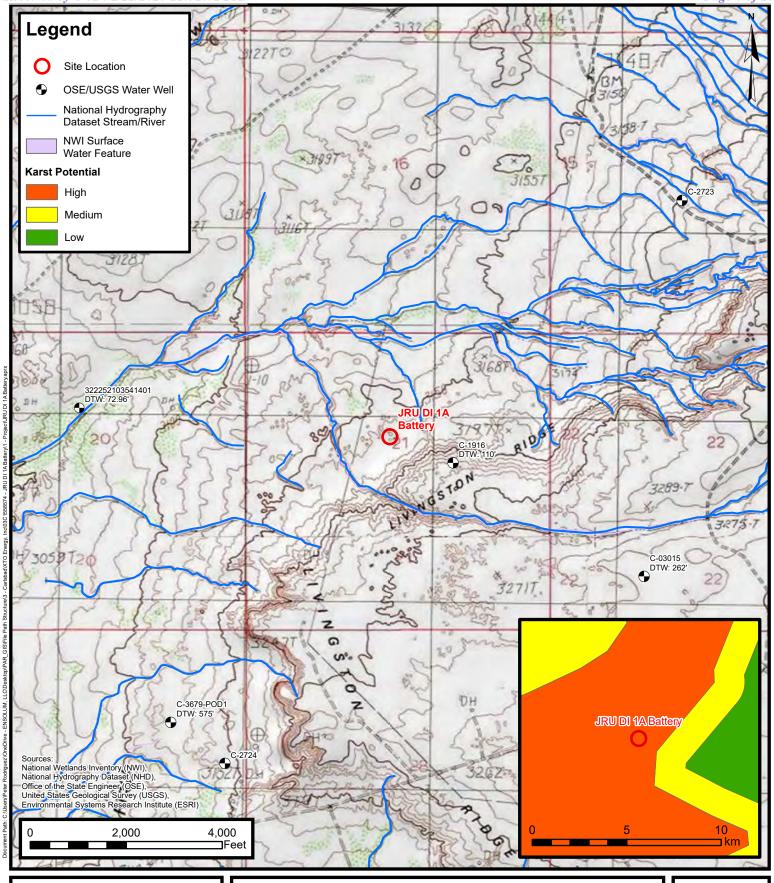
Appendix D Photographic Log

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

Appendix F Disposal Facility Manifests







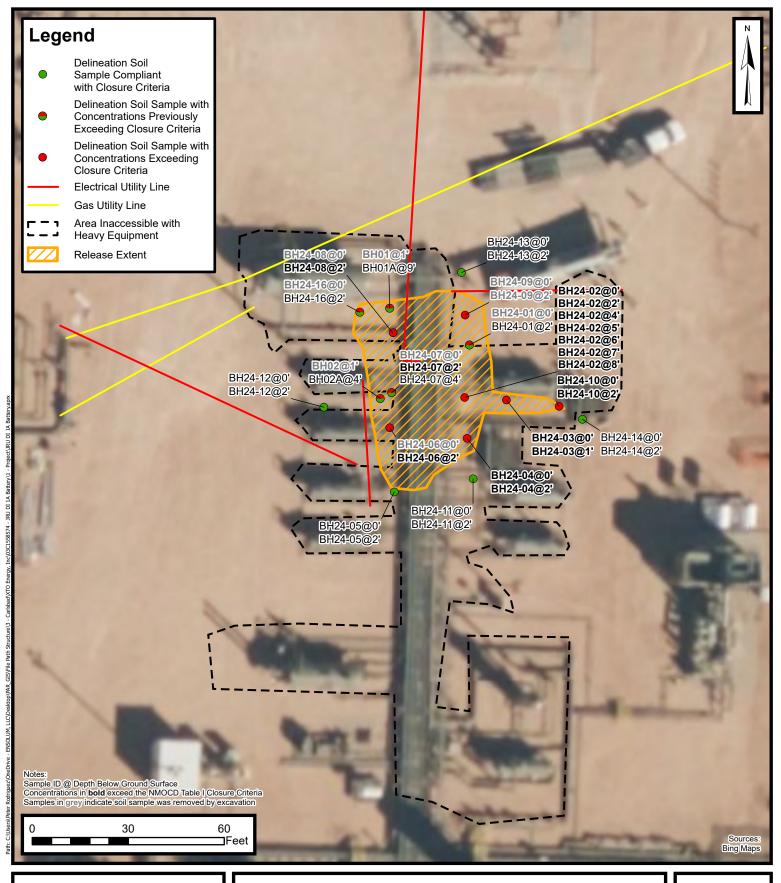


Site Receptor Map

XTO Energy, Inc JRU DI 1A Battery

Incident Number: NAPP2411739118

Unit F, Sec 21, T22S, R30E Eddy County, New Mexico



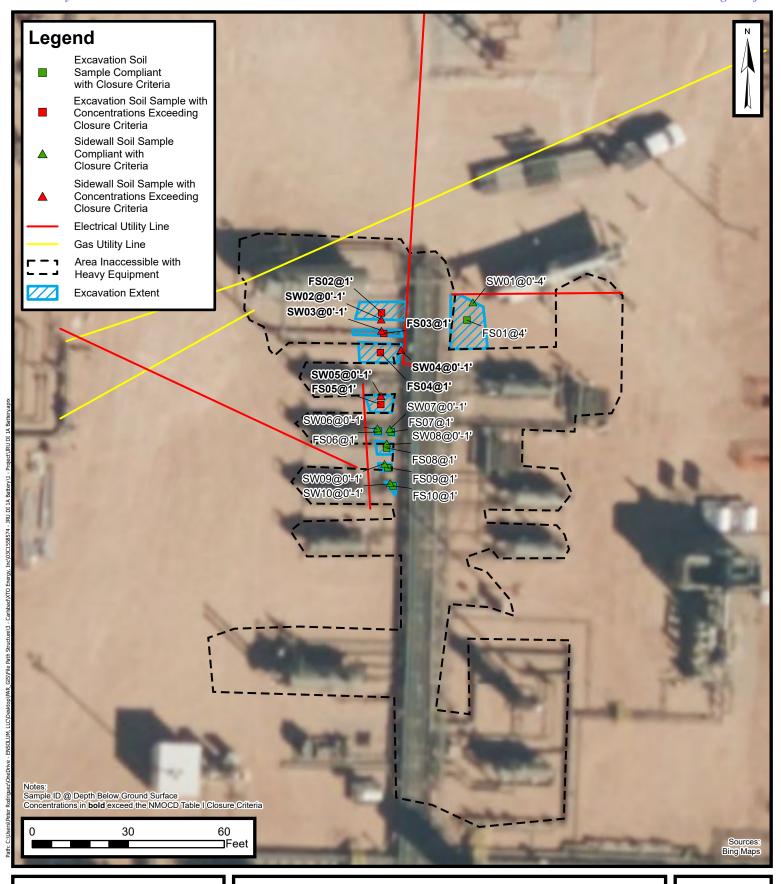


Delineation Soil Sample Locations

XTO Energy, Inc JRU DI 1A Battery

Incident Number: NAPP2411739118

Unit F, Sec 21, T22S, R30E Eddy County, New Mexico



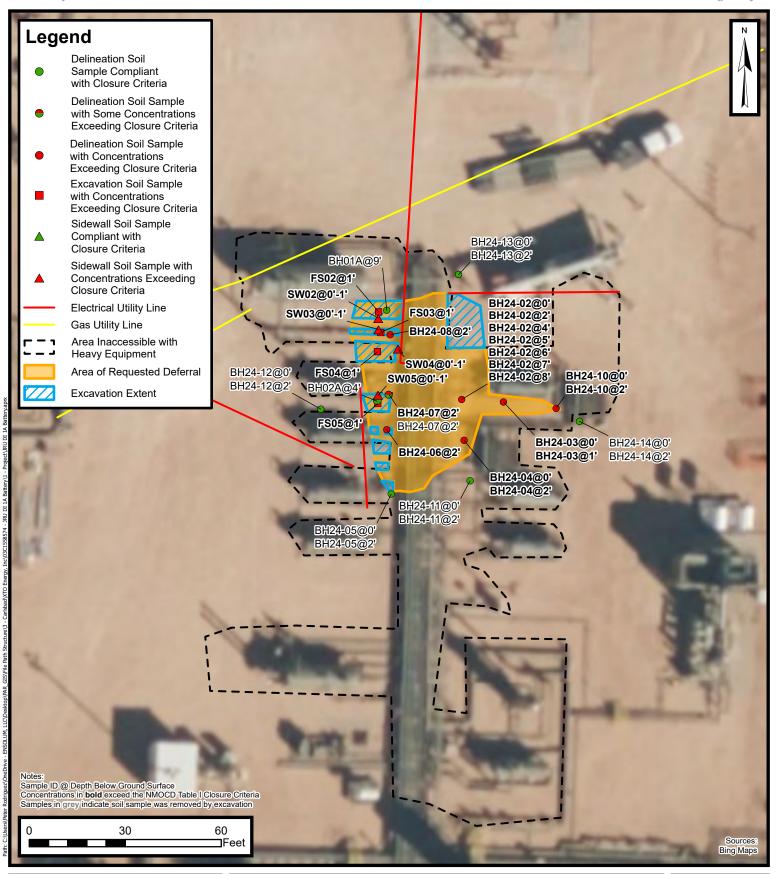


Excavation Soil Sample Locations

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Unit F, Sec 21, T22S, R30E Eddy County, New Mexico





Area of Requested Deferral

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Incident Number: NAPP2411739118

Unit F, Sec 21, T22S, R30E Eddy County, New Mexico



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS JRU DI 1A Battery XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delir	neation Soil Sai	mples				
BH24-01	06/27/2024	θ	ND	NĐ	ND	NĐ	ND	NĐ	ND	1,600
BH24-01	06/27/2024	2	ND	ND	ND	ND	ND	ND	ND	320
BH24-02	06/27/2024	0	ND	ND	ND	ND	ND	ND	ND	12,000
BH24-02	06/27/2024	2	ND	ND	ND	ND	ND	ND	ND	5,400
BH24-02	06/29/2024	4	ND	ND	ND	36	53	36	89	6,100
BH24-02	06/29/2024	5	ND	ND	ND	ND	ND	ND	ND	2,900
BH24-02	06/29/2024	6	ND	ND	ND	ND	ND	ND	ND	2,300
BH24-02	06/29/2024	7	ND	ND	ND	ND	ND	ND	ND	1,300
BH24-02	06/29/2024	8	ND	ND	ND	ND	ND	ND	ND	1,700
BH24-03	06/27/2024	0	ND	ND	ND	ND	ND	ND	ND	12,000
BH24-03	06/27/2024	2	ND	ND	ND	ND	ND	ND	ND	2,600
BH24-04	06/27/2024	0	ND	ND	ND	ND	ND	ND	ND	9,100
BH24-04	06/27/2024	2	ND	ND	ND	ND	ND	ND	ND	5,200
BH24-05	06/27/2024	0	ND	ND	ND	ND	ND	ND	ND	390
BH24-05	06/27/2024	2	ND	ND	ND	ND	ND	ND	ND	250
BH24-06	06/27/2024	θ	ФИ	ND	ND	ND	ND	ND	ФИ	9,100
BH24-06	06/27/2024	2	ND	ND	ND	ND	ND	ND	ND	670
BH24-07	06/27/2024	θ	ФИ	ND	ND	ND	ND	ND	ФИ	3,200
BH24-07	06/27/2024	2	ND	ND	ND	ND	ND	ND	ND	960
BH24-07	06/29/2024	4	ND	ND	ND	ND	ND	ND	ND	110
BH24-08	06/27/2024	θ	ФИ	ND	ND	ND	ND	ND	ФИ	1,200
BH24-08	06/27/2024	2	ND	ND	ND	ND	ND	ND	ND	2,500
BH24-09	06/28/2024	θ	HD	UD	ND	ND	ND	N D	ФИ	8,800
BH24-09	06/28/2024	2	ND.	ND.	ND	ND	ND	ND.	ND	3,300
BH24-10	06/28/2024	0	ND	ND	ND	ND	ND	ND	ND	7,200
BH24-10	06/28/2024	2	ND	ND	ND	ND	ND	ND	ND	4,000
BH24-11	06/28/2024	0	ND	ND	ND	ND	ND	ND	ND	340
BH24-11	06/28/2024	2	ND	ND	ND	ND	ND	ND	ND	150
BH24-12	06/28/2024	0	ND	ND	ND	ND	ND	ND	ND	150
BH24-12	06/28/2024	2	ND	ND	ND	ND	ND	ND	ND	120

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS JRU DI 1A Battery XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)		NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
BH24-13	06/28/2024	0	ND	ND	ND	14	ND	14	14	470
BH24-13	06/28/2024	2	ND	ND	ND	ND	ND	ND	ND	170
BH24-14	06/28/2024	0	ND	ND	ND	11	ND	11	11	320
BH24-14	06/28/2024	2	ND	ND	ND	ND	ND	ND	ND	330
BH24-16	06/29/2024	0	ND	ND	ND	HD	ND	HD	ND	610
BH24-16	06/29/2024	2	ND	ND	ND	ND	ND	ND	ND	150
BH01	12/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,080
BH01A	12/02/2024	9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
BH02	12/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	< 10.0	4,960
BH02A	12/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
				Confi	rmation Soil Sa	amples				
FS01	12/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS02	12/02/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,000
FS03	12/02/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,600
FS04	12/02/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,160
FS05	12/02/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,280
FS06	12/02/2024	1	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
FS07	12/02/2024	1	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
FS08	12/02/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS09	12/02/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS10	12/02/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW01	12/02/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW02	12/02/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,240
SW03	12/02/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,520
SW04	12/02/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,120
SW05	12/02/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,440
SW06	12/02/2024	0-1	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS JRU DI 1A Battery XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I CI	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
SW07	12/02/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW08	12/02/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW09	12/02/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW10	12/02/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192

Notes:

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

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

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or

reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

ND: Non-detectable concentrations



APPENDIX A

August 3, 2024 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			
	Chloride	600 mg/kg			
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg			
< 50 feet	BTEX	50 mg/kg			
	Benzene	10 mg/kg			

TDS - Total dissolved solids

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

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

BTEX - Benzene, toluene, ethylbenzene, and xylenes

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 feet 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 feet 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 NMCOD 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

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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.

August 27, 2024

Lakin Pullman	August 3, 2024
Lakin Pullman, B.Sc.	Date
ENVIRONMENTAL SPECIALIST, REPORTING	

Sally Carttar, BA.

Attachments

PROJECT MANAGER, REPORT REVIEW

Sally Carttar

Attachment 1. Characterization Sampling and Proposed Excavation Schematics

Attachment 2. Initial Characterization Sample Field Screen and Laboratory Results – Depth to Groundwater <50 feet bgs

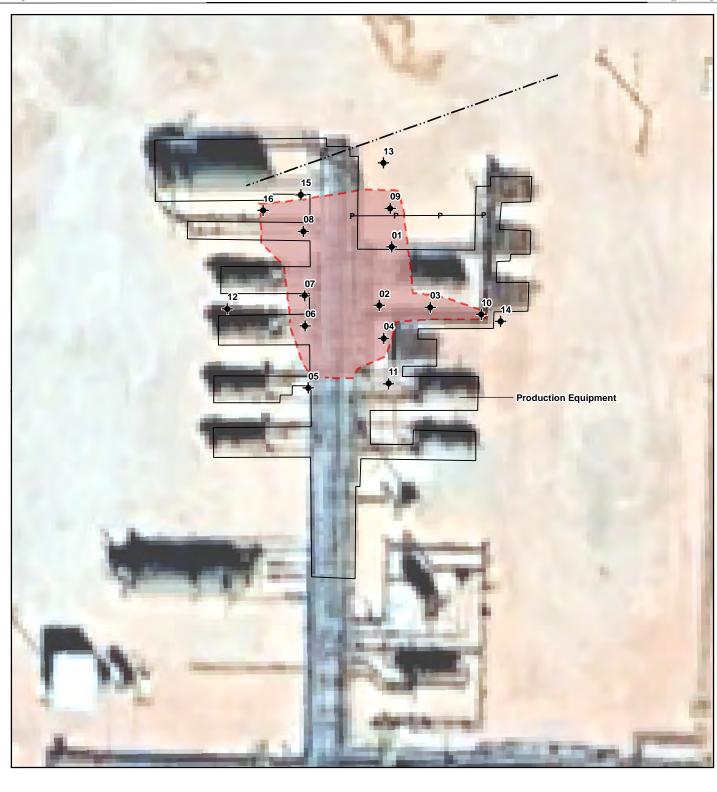
Date

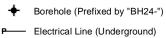
Attachment 3. Daily Field Reports with Photographs

Attachment 4. Laboratory Data Reports with Chain of Custody Forms

Attachment 5. Closure Criteria Research Attachment 6. NMOCD C-141 Report

ATTACHMENT 1





---- Pipeline (Underground) Infrastructure



Release Area (~2,123 sq.ft. | 219 ft.)



NAD 1983 UTM Zone 13N

Map Center: Long:-103.886670

Characterization Sampling Site Schematic James Ranch Unit DI 1A Battery





P—— 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 Map Center: Lat: 32.379936, Long:-103.886659

Proposed Excavation Schematic James Ranch Unit DI 1A Battery FIGURE:



Seospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability naccuracies. 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

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			Field Screening Petroleum Hydrocarbons									
				Volatile Extractable						Inorganic		
Sample ID	Depth (ft)	Sample Date	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene (ba/kgm)	BTEX (Total)	Gasoline Range Organics (GRO)	B Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(mg/kg)	Total Petroleum	공 (Chloride Concentration
	0	June 27, 2024	73	1,883	ND	ND	ND	ND	ND	ND	ND	1,600
BH24-01	2	June 27, 2024	69	143	ND	ND ND	ND	ND	ND ND	ND	ND	320
	0	June 27, 2024	132	12,540	ND	ND	ND ND	ND	ND	ND ND	ND ND	12,000
	2	June 27, 2024	131	5,655	ND	ND	ND	ND	ND ND	ND	ND	5,400
	4	June 29, 2024	117	5,670	ND ND	ND ND	ND ND	36	53	36	89	6,100
BH24-02	5	June 29, 2024	92	3,355	ND	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
	0	June 27, 2024	47	10,845	ND	ND	ND	ND	ND	ND	ND	12,000
BH24-03	2	June 27, 2024	78	1,413	ND	ND	ND	ND	ND	ND	ND	2,600
	0	June 27, 2024	65	10,480	ND	ND	ND	ND	ND	ND	ND	9,100
BH24-04	2	June 27, 2024	97	4,543	ND	ND	ND	ND	ND	ND	ND	5,200
21124.05	0	June 27, 2024	64	595	ND	ND	ND	ND	ND	ND	ND	390
BH24-05	2	June 27, 2024	59	338	ND	ND	ND	ND	ND	ND	ND	250
DU24.00	0	June 27, 2024	78	9,898	ND	ND	ND	ND	ND	ND	ND	9,100
BH24-06	2	June 27, 2024	55	843	ND	ND	ND	ND	ND	ND	ND	670
	0	June 27, 2024	50	4,203	ND	ND	ND	ND	ND	ND	ND	3,200
BH24-07	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
BHZ4-06	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
51127-03	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	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

[&]quot;ND" Not Detected at the Reporting Limit

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



[&]quot;-" indicates not analyzed/assessed

ATTACHMENT 3



Client:	XTO Energy Inc. (US)	Inspection Date:	6/27/2024			
Site Location Name:	JRU DI 1A CTB	Report Run Date:	6/28/2024 12:07 AM			
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	6/27/2024 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



Site Photos

Viewing Direction: South



Area of release - nAPP2411739118

10.0000 11.11.12.121.03110



BH24-02 at 0' and 2' depths

Viewing Direction: South



BH24-01 at 0' and 2' depths

Viewing Direction: West



BH24-03 at 0' and 2' depths





BH24-04 at 0' and 2' depths



BH24-05 at 0' and 2' depths



BH24-06 at 0' and 2' depths



BH24-07 at 0' and 2' depths





BH24-08 at 0' and 2' depths



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature: Signature



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						

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



Next Steps & Recommendations

1 Obtain north horizontal edge and vertical delineation



Site Photos

Viewing Direction: Southeast



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

Viewing Direction: Northwest



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

Viewing Direction: South



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

Viewing Direction: East



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





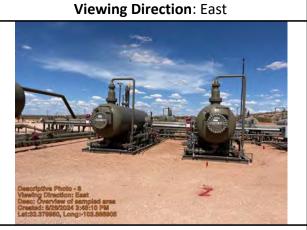
BH24-13 at surface (0') and 2'



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



Overview of sampled area



Overview of sampled area



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature: Signature

ATTACHMENT 4

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

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

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

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Released to Imaging: 4/15/2025 7:30:33 AM

Client: Vertex

Laboratory Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

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Definitions/Glossary

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

4

Qualifiers

GC VOA

Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.

HPLC/IC

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
POL 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 Job ID: 885-7159-1

Project: JRU D1 1ACTB

Job ID: 885-7159-1 Eurofins 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

3

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7

10

11

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Client Sample ID: BH24-01 0.0'

Lab Sample ID: 885-7159-1 Date Collected: 06/27/24 08:55

Matrix: Solid

Prepared

07/02/24 08:13

Prepared

07/02/24 12:18

Analyzed

07/02/24 13:35

Analyzed

07/03/24 22:44

Dil Fac

Dil Fac

50

Date Received: 06/29/24 06:15

Surrogate

Analyte

Chloride

Di-n-octyl phthalate (Surr)

Method: EPA 300.0 - Anions, Ion Chromatography

Method: SW846 8015M/D - Gaso	line Range Org	anics (GRC)) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		07/01/24 14:00	07/03/24 03:30	1
(GRO)-C6-C10								
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 Comp	ounds (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 - Diese	l Range Organ	ics (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

Limits

62 - 134

RL

150

Unit

mg/Kg

%Recovery Qualifier

Result Qualifier

88

1600

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Client Sample ID: BH24-01 2.0'

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

320 F2

Analyte

Chloride

Date Collected: 06/27/24 09:00
Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-2

	Matrix:	Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		07/01/24 14:00	07/03/24 03:53	1
(GRO)-C6-C10								
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 Comp	ounds (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 - Diese	I Range Organ	ics (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	

RL

59

Unit

mg/Kg

Prepared

07/02/24 12:18

Analyzed

07/02/24 15:11

Dil Fac

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Date Received: 06/29/24 06:15

Surrogate

4-Bromofluorobenzene (Surr)

Client Sample ID: BH24-02 0.0'

Lab Sample ID: 885-7159-3 Date Collected: 06/27/24 09:05

%Recovery

85

Qualifier

Matrix: Solid

Prepared

07/01/24 14:00

Analyzed

07/03/24 04:17

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC) Result Qualifier RL Unit D Prepared Analyzed Dil Fac 4.9 07/01/24 14:00 07/03/24 04:17 Gasoline Range Organics ND mg/Kg (GRO)-C6-C10 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 07/01/24 14:00 07/03/24 04:17 4-Bromofluorobenzene (Surr) 93 35 - 166 Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier RL Unit D Prepared Dil Fac Analyte Analyzed ND 07/01/24 14:00 Benzene 0.024 07/03/24 04:17 mg/Kg Ethylbenzene ND 0.049 mg/Kg 07/01/24 14:00 07/03/24 04:17 Toluene ND 0.049 07/01/24 14:00 07/03/24 04:17 mg/Kg Xylenes, Total ND 0.097 mg/Kg 07/01/24 14:00 07/03/24 04:17

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

Limits

48 - 145

	metriod. El A 000.0 - Amons, ion o	momatograp	'iiy						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	12000		600	mg/Kg		07/02/24 12:18	07/03/24 23:33	200

Eurofins Albuquerque

Dil Fac

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Client Sample ID: BH24-02 2.0'

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

5400

Analyte

Chloride

Lab Sample ID: 885-7159-4 Date Collected: 06/27/24 09:10

Matrix: Solid

Date Received: 06/29/24 06:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		07/01/24 14:00	07/03/24 04:40	1
(GRO)-C6-C10								
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 Comp	ounds (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 - Diese	l Range Organ	ics (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

RL

300

Unit

mg/Kg

Prepared

07/02/24 12:18

Analyzed

07/04/24 00:23

Dil Fac

100

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Date Received: 06/29/24 06:15

Toluene

Xylenes, Total

Client Sample ID: BH24-03 0.0'

Date Collected: 06/27/24 09:20

ND

ND

Lab Sample ID: 885-7159-5

07/03/24 05:03

07/03/24 05:03

07/01/24 14:00

07/01/24 14:00

Matrix: Solid

Method: SW846 8015M/D - Gasol	ine Range Org	anics (GRC)) (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 Comp	ounds (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

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 8-Bromofluorobenzene (Surr)
 Limits 48 - 145
 Prepared 07/01/24 14:00
 Analyzed 07/03/24 05:03
 Dil Fac 07/01/24 14:00

0.047

0.094

mg/Kg

mg/Kg

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 CI	hromatography						
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: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Surrogate

4-Bromofluorobenzene (Surr)

Client Sample ID: BH24-03 2.0'

Lab Sample ID: 885-7159-6 Date Collected: 06/27/24 09:25

%Recovery Qualifier

83

Matrix: Solid

Prepared

07/01/24 14:00

Analyzed

07/03/24 05:27

Date Received: 06/29/24 06:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.8	mg/Kg		07/01/24 14:00	07/03/24 05:27	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		05 400			07/04/04 44 00	07/00/04 05 07	
, ,		. (00)	35 - 166			07/01/24 14:00	07/03/24 05:27	1
Method: SW846 8021B - Volat Analyte	ile Organic Comp	ounds (GC) Qualifier		Unit	D	07/01/24 14:00 Prepared	07/03/24 05:27 Analyzed	7 Dil Fac
Method: SW846 8021B - Volat	ile Organic Comp	• •		Unit mg/Kg	<u>D</u>			Dil Fac
Method: SW846 8021B - Volat Analyte	ile Organic Comp	• •	RL		<u>D</u>	Prepared	Analyzed	Dil Fac 1
Method: SW846 8021B - Volat Analyte Benzene	ile Organic Comp Result ND	• •	RL 0.024	mg/Kg	<u>D</u>	Prepared 07/01/24 14:00	Analyzed 07/03/24 05:27	Dil Fac 1 1 1

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

Limits

48 - 145

Method. EFA 300.0 - Anions, for 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: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Date Received: 06/29/24 06:15

4-Bromofluorobenzene (Surr)

Client Sample ID: BH24-04 0.0'

Lab Sample ID: 885-7159-7 Date Collected: 06/27/24 09:30

Matrix: Solid

07/03/24 05:50

07/01/24 14:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.8	mg/Kg		07/01/24 14:00	07/03/24 05:50	1
(GRO)-C6-C10								
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 - Volat	tile Organic Comp	ounds (GC))					
Method: SW846 8021B - Volat Analyte	•	ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	•	• •		Unit mg/Kg	<u>D</u>	Prepared 07/01/24 14:00	Analyzed 07/03/24 05:50	Dil Fac
Analyte	Result	• •	RL		<u>D</u>			Dil Fac 1
Analyte Benzene	Result ND	• •	RL 0.024	mg/Kg	<u>D</u>	07/01/24 14:00	07/03/24 05:50	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	Result ND ND	• •	0.024 0.048	mg/Kg	<u>D</u>	07/01/24 14:00 07/01/24 14:00	07/03/24 05:50 07/03/24 05:50	Dil Fac 1 1 1 1

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

48 - 145

metriod. Et A 000.0 - Amoria, for ornomatography									
1	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: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

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

Method: SW846 8015M/D - Gas	soline Range Org	anics (GRC	O) (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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	<u> </u>	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	

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

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

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

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	

Method: SW846 8021B - Volati	ile Organic Comp	ounds (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

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: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Client Sample ID: BH24-05 2.0'

Lab Sample ID: 885-7159-10 Date Collected: 06/27/24 10:05

Matrix: Solid

Analyzed

07/03/24 07:24

Dil Fac

Prepared

07/01/24 14:00

Date Received: 06/29/24 06:15

Surrogate

4-Bromofluorobenzene (Surr)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		07/01/24 14:00	07/03/24 07:24	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati	93 ile Organic Comp	ounds (GC)	35 - 166			07/01/24 14:00	07/03/24 07:24	1
4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati Analyte	ile Organic Comp	ounds (GC) Qualifier		Unit	D	07/01/24 14:00 Prepared	07/03/24 07:24 Analyzed	1 Dil Fac
Method: SW846 8021B - Volati	ile Organic Comp			Unit mg/Kg	<u>D</u>			Dil Fac
Method: SW846 8021B - Volati Analyte	ile Organic Comp		RL		<u>D</u>	Prepared	Analyzed	1 Dil Fac 1
Method: SW846 8021B - Volati Analyte Benzene	ile Organic Comp Result ND		RL 0.025	mg/Kg	<u>D</u>	Prepared 07/01/24 14:00	Analyzed 07/03/24 07:24	1 Dil Fac 1 1 1 1

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

Limits

48 - 145

%Recovery Qualifier

86

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: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Client Sample ID: BH24-06 0.0'

Lab Sample ID: 885-7159-11

Date Collected: 06/27/24 10:10 Matrix: Solid

Method: SW846 8015M/D - Gasol		•	, ,					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	ND		5.0	mg/Kg		07/01/24 14:00	07/03/24 07:47	
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	95		35 - 166			07/01/24 14:00	07/03/24 07:47	
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.025	mg/Kg		07/01/24 14:00	07/03/24 07:47	-
Ethylbenzene	ND		0.050	mg/Kg		07/01/24 14:00	07/03/24 07:47	
Toluene	ND		0.050	mg/Kg		07/01/24 14:00	07/03/24 07:47	
Xylenes, Total	ND		0.10	mg/Kg		07/01/24 14:00	07/03/24 07:47	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	86		48 - 145			07/01/24 14:00	07/03/24 07:47	
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/02/24 08:13	07/02/24 15:25	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/02/24 08:13	07/02/24 15:25	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	90		62 - 134			07/02/24 08:13	07/02/24 15:25	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
			600	mg/Kg		07/02/24 12:18	07/04/24 00:10	200

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Client Sample ID: BH24-06 2.0'

Date Collected: 06/27/24 10:15

Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-12

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		07/01/24 14:00	07/03/24 08:11	1
(GRO)-C6-C10								
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 - Volat	ile Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	ma/Ka		07/01/24 14:00	07/03/24 08:11	

Method: SW846 8021B -	 Volatile Organic Comp 	ounds (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

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 Di-n-octyl phthalate (Surr)	%Recovery	Qualifier	62 - 134			Prepared 07/02/24 08:13	Analyzed 07/02/24 15:38	Dil Fac		

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: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Client Sample ID: BH24-07 0.0'

Date Collected: 06/27/24 10:20 Date Received: 06/29/24 06:15

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-7159-13

Analyzed

07/03/24 11:52

Dil Fac

Prepared

07/02/24 13:17

Matrix: Solid

Method: SW846 8015M/D - Gas	soline Range Org	anics (GRC) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	MD		5.0	mg/Kg		07/02/24 13:17	07/03/24 11:52	1
(GRO)-C6-C10								
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 - Volati	le Organic Comp	ounds (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

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	

Limits

48 - 145

%Recovery Qualifier

90

١	Method. LFA 300.0 - Allions, lon C	od. LFA 300.0 - Amons, for Chromatography							
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	3200		150	mg/Kg	1	07/03/24 12:45	07/05/24 15:25	50

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		07/02/24 13:17	07/03/24 12:58	1
(GRO)-C6-C10								
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 - Volati	ne Organic Comp	ourius (GC)						
Analyte Benzene	Result ND	Qualifier	RL 0.025	Unit mg/Kg	<u>D</u>	Prepared 07/02/24 13:17	Analyzed 07/03/24 12:58	Dil Fac
		Qualifier	RL	mg/Kg	<u>D</u>			Dil Fac 1 1
Benzene	ND	Qualifier	RL 0.025	mg/Kg	<u>D</u>	07/02/24 13:17	07/03/24 12:58	1 1 1
Benzene Ethylbenzene	ND ND	Qualifier	0.025 0.050	mg/Kg	<u>D</u>	07/02/24 13:17 07/02/24 13:17	07/03/24 12:58 07/03/24 12:58	1 1 1 1
Benzene Ethylbenzene Toluene	ND ND ND		RL 0.025 0.050 0.050	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/02/24 13:17 07/02/24 13:17 07/02/24 13:17	07/03/24 12:58 07/03/24 12:58 07/03/24 12:58	Dil Fac 1 1 1 1 Dil Fac

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

mothod: El A 000.0 Amono, ion o	momatograp	,						
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: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Client Sample ID: BH24-08 0.0'

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

1200

Analyte

Chloride

Lab Sample ID: 885-7159-15 Date Collected: 06/27/24 13:00

Matrix: Solid

Date Received: 06/29/24 06:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		07/02/24 13:17	07/03/24 14:03	1
(GRO)-C6-C10								
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 C	rganic Comp	ounds (GC)	1					
Analyte	•	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 Organ	ics (DRO) (GC)					
Analyte	•	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	

RL

60

Unit

mg/Kg

Prepared

07/03/24 12:45

Analyzed

07/03/24 17:47

Dil Fac

20

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Date Received: 06/29/24 06:15

Client Sample ID: BH24-08 2.0'

Date Collected: 06/27/24 13:05

Lab Sample ID: 885-7159-16

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		07/02/24 13:17	07/03/24 14:25	1
(GRO)-C6-C10								
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 - Volat	ile Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Renzene	ND		0.025	ma/Ka		07/02/24 13:17	07/03/24 14:25	

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

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			

Wethou: EPA 300.0 - Amons, fon C	ilromatograpny						
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

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

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

Lab Sample ID: MB 885-7717/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 7830

						Prep Batt	:n: //1/
MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
ND		5.0	mg/Kg		07/01/24 14:00	07/02/24 21:38	1

Unit

mg/Kg

D

%Rec

95

Gasoline Range Organics (GRO)-C6-C10

Analyte

MB MB

%Recovery Limits Qualifier Prepared Dil Fac Surrogate Analyzed 35 - 166 07/01/24 14:00 07/02/24 21:38 4-Bromofluorobenzene (Surr) 94

LCS LCS

23.7

Result Qualifier

Spike

babbA

25.0

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

Matrix: Solid

Analysis Batch: 7830

Analyte

Gasoline Range Organics (GRO)-C6-C10

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 195 S1+ 35 - 166

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

Matrix: Solid

Analysis Batch: 7936

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac ND 5.0 mg/Kg 07/02/24 13:17 07/03/24 11:30 Gasoline Range Organics

(GRO)-C6-C10

MB MB %Recovery Qualifier

Surrogate Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 92 35 - 166 07/02/24 13:17 07/03/24 11:30

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

Matrix: Solid

Analysis Batch: 7936

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Limits

70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 7806

Prep Batch: 7717

Prep Type: Total/NA Prep Batch: 7806

%Rec

LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits 25.0 Gasoline Range Organics 24.5 mg/Kg 98 70 - 130

Spike

(GRO)-C6-C10

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 206 S1+ 35 - 166

Lab Sample ID: 885-7159-13 MS

Matrix: Solid

Analysis Batch: 7936

Gasoline Range Organics

(GRO)-C6-C10

Client Sample ID: BH24-07 0.0'

Prep Type: Total/NA

Prep Batch: 7806

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier %Rec Unit Limits ND 25.0 28.0 112 70 - 130 mg/Kg

Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Lab Sample ID: 885-7159-13 MS

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

Matrix: Solid

Analysis Batch: 7936

MS MS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 226 S1+ 35 - 166 Client Sample ID: BH24-07 0.0'

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 7806

Lab Sample ID: 885-7159-13 MSD Client Sample ID: BH24-07 0.0

Matrix: Solid

Analysis Batch: 7936

Prep Batch: 7806 MSD MSD Sample Sample Spike %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics ND 24.8 25.9 mg/Kg 105 70 - 130 20

(GRO)-C6-C10

MSD MSD

Surrogate %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 Qualifier RL Unit D Prepared Analyzed Dil Fac Result Benzene ND 0.025 mg/Kg 07/01/24 14:00 07/02/24 21:38 Ethylbenzene ND 0.050 mg/Kg 07/01/24 14:00 07/02/24 21:38 Toluene ND 0.050 mg/Kg 07/01/24 14:00 07/02/24 21:38 ND 0.10 07/01/24 14:00 07/02/24 21:38 Xvlenes, Total mg/Kg

MB MB

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 84 48 - 145 07/01/24 14:00 07/02/24 21:38

Lab Sample ID: LCS 885-7717/3-A

Matrix: Solid

Analysis Batch: 7831

Client Sample ID: Lab Control Sample

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 81 Benzene 1.00 0.805 mg/Kg 70 - 130 1.00 0.789 79 Ethylbenzene mg/Kg 70 - 130m-Xylene & p-Xylene 2.00 1.61 mg/Kg 80 70 - 130 1.00 0.785 78 70 - 130 o-Xylene mg/Kg Toluene 1.00 0.776 mg/Kg 78 70 - 130

LCS LCS

Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 48 - 145 87

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

Released to Imaging: 4/15/2025 7:30:33 AM

Matrix: Solid

Analysis Batch: 7937

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7806

мв мв

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

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Prep Batch: 7717

Prep Type: Total/NA

Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

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

70 - 130

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 7806

Prep Type: Total/NA

Prep Batch: 7806

	MR	MB						
Analyte	Result	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
	МВ	MB						

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

Lab Sample ID: LCS 885-7806/3-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 7937							Prep Batch:		
	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		

0.815

mq/Kq

1.00

LCS LCS

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

Lab Sample ID: 885-7159-14 MS Client Sample ID: BH24-07 2.0'

Matrix: Solid

Toluene

Analysis Batch: 7937

Samp	le Sample	Spike	MS	MS				%Rec
Analyte Res	ılt Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	ID .	0.996	0.839		mg/Kg		84	70 - 130
Ethylbenzene	ID	0.996	0.933		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	ID	1.99	1.87		mg/Kg		94	70 - 130
o-Xylene 1	ID	0.996	0.944		mg/Kg		95	70 - 130
Toluene	ID	0.996	0.897		mg/Kg		90	70 - 130

MS MS

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

Lab Sample ID: 885-7159-14 MSD Client Sample ID: BH24-07 2.0'

Matrix: Solid

Analysis Batch: 7937

Analysis Batch: /93/									Pre	p Batch	: 7806
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
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
m-Xylene & p-Xylene o-Xylene	ND ND		1.98 0.989	1.84 0.929		mg/Kg mg/Kg		93 94	70 - 130 70 - 130	2	

Limits

48 - 145

Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

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

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

Client: Vertex

Analysis Batch: 7937

MSD MSD

Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr)

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

Client Sample ID: BH24-07 2.0'

Prep Type: Total/NA

Prep Batch: 7806

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

	MB	MB						
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 11:38	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/02/24 08:13	07/02/24 11:38	1
	МВ	MB						
Surrogate	%Recovery	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 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 7757

Prep Batch: 7742 Spike LCS LCS %Rec

Analyte Result Qualifier Added Unit %Rec Limits Diesel Range Organics 50.0 45.2 mg/Kg 90 60 - 135

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 87 62 - 134

Lab Sample ID: 885-7159-12 MS Client Sample ID: BH24-06 2.0'

Matrix: Solid

Analysis Batch: 7757

Prep Type: Total/NA

Prep Batch: 7742

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics	ND		48.0	45.1		mg/Kg		94	44 - 136	
[C10_C28]										

MS MS

%Recovery Surrogate Qualifier Limits Di-n-octyl phthalate (Surr) 89 62 - 134

Lab Sample ID: 885-7159-12 MSD Client Sample ID: BH24-06 2.0'

Matrix: Solid

Analysis Batch: 7757

Prep Type: Total/NA Prep Batch: 7742

RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Diesel Range Organics ND 48.7 44.3 mg/Kg 91 44 - 136 32

[C10-C28]

MSD MSD

%Recovery Qualifier Limits Surrogate 62 - 134 Di-n-octyl phthalate (Surr) 89

Prep Batch: 7860

Prep Batch: 7860

Prep Type: Total/NA

Prep Batch: 7780

Job ID: 885-7159-1 Client: Vertex

Project/Site: JRU D1 1ACTB

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

Client Sample ID: Method Blank Lab Sample ID: MB 885-7860/1-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 7876

MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 07/03/24 09:46 07/03/24 12:35 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 07/03/24 09:46 07/03/24 12:35

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed Di-n-octyl phthalate (Surr) 83 62 - 134 07/03/24 09:46 07/03/24 12:35

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 885-7860/2-A Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 7876

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits 50.0 49.3 99 60 - 135 Diesel Range Organics mg/Kg

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 89 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-7780/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 7804

мв мв

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

Lab Sample ID: LCS 885-7780/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 7804

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

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

Matrix: Solid

Analysis Batch: 7895

мв мв

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

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

Released to Imaging: 4/15/2025 7:30:33 AM

Matrix: Solid

Analysis Batch: 7895 Prep Batch: 7880 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 30.0 27.8 93 90 - 110 Chloride mg/Kg

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Prep Batch: 7780 %Rec

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 7880

Prep Type: Total/NA

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

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

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Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

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

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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	

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Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

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

Released to Imaging: 4/15/2025 7:30:33 AM

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	

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7/0/202

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

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	
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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 Batc
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

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7895 MA

Client: Vertex

Total/NA

Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-1

Matrix: Solid

Date Collected: 06/27/24 08:55

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed 5030C 07/01/24 14:00 Total/NA Prep 7717 AT EET ALB 8015M/D Total/NA Analysis 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 07/03/24 03:30 Analysis 8021B 1 7831 JP **EET ALB** 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 **EET ALB** 07/02/24 12:18 Prep 300 Prep 7780 RC

Lab Sample ID: 885-7159-2

07/03/24 22:44

EET ALB

Matrix: Solid

Client Sample ID: BH24-01 2.0'

Analysis

300.0

Date Collected: 06/27/24 09:00 Date Received: 06/29/24 06:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Lab Sample ID: 885-7159-4

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

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Matrix: Solid

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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Lab Sample ID: 885-7159-5

Matrix: Solid

Date Collected: 06/27/24 09:20 Date Received: 06/29/24 06:15

Client Sample ID: BH24-03 0.0'

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

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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

_ab	Samp	le ID	: 885-7	7159-7
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

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

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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'

Date Collected: 06/27/24 10:10

Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-11

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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'

Date Collected: 06/27/24 10:15

Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-12

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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'

Date Collected: 06/27/24 10:20

Date Received: 06/29/24 06:15

Lab Sample ID: 885-7159-13

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Lab Sample ID: 885-7159-14

Matrix: Solid

Client Sample ID: BH24-07 2.0'

Date Collected: 06/27/24 10:30 Date Received: 06/29/24 06:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Matrix: Solid

Accreditation/Certification Summary

Client: Vertex Job ID: 885-7159-1

Project/Site: JRU D1 1ACTB

Laboratory: Eurofins Albuquerque

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

Authority	Progr	am	Identification Number	Expiration Date			
New Mexico	State		NM9425, NM0901	02-26-25			
The following analytes	are included in this report, b	ut the laboratory is not certi	fied by the governing authority. This li	st may include analytes			
for which the agency de	oes not offer certification.						
Analysis Method	Prep Method	Matrix	Analyte				
300.0	300_Prep	Solid	Chloride				
8015M/D	5030C	Solid	Gasoline Range Organics	Gasoline Range Organics (GRO)-C6-C10			
8015M/D	SHAKE	Solid	Diesel Range Organics [0	Diesel Range Organics [C10-C28]			
8015M/D	SHAKE	Solid	Motor Oil Range Organics	Motor Oil Range Organics [C28-C40]			
8021B	5030C	Solid	Benzene				
8021B	5030C	Solid	Ethylbenzene				
8021B	5030C	Solid	Toluene	Toluene			
8021B	5030C	Solid	Xylenes, Total				
Oregon	NELA	D	NM100001	02-26-25			

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Received by OCD: 1/21/2025	12:32:01 PM										P	Page 7	10	^r 18
885-7159 COC														al report.
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Chain-of-Custody Record The Verkex (XTO Energy) Address: On File e#:	Level 4 (Full Validation) □ Level 4 (Full Validation)	Sample Name	BH24-01	BH24-01 BH24-02	BH24-02	BH24-03	BH24-04	BH24-05	BHZ4-05	BH24-06 RH24-66	Relinquished by	kq pa	(MMMM/LL)	f necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories
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Login Sample Receipt Checklist

Client: Vertex Job Number: 885-7159-1

Login Number: 7159 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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	

J 188

Environment Testing

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

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

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

Page 2 of 50

Client: Vertex

Laboratory Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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Definitions/Glossary

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Surrogate recovery exceeds control limits, high biased.

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

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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

DLC Decision Level Concentration (Radiochemistry)

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

EPA recommended "Maximum Contaminant Level" MCL 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 Job ID: 885-7239-1

Project: JRU D1 1A CTB

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

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Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Date Received: 07/02/24 08:03

4-Bromofluorobenzene (Surr)

Client Sample ID: BH24-09 0.0'

Lab Sample ID: 885-7239-1 Date Collected: 06/28/24 08:35

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.8	mg/Kg		07/02/24 13:17	07/03/24 16:15	1
(GRO)-C6-C10				0 0				
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 - Volati				I I mi A	ь	Duamawad	Analysed	Dil Foo
Method: SW846 8021B - Volati Analyte		ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
				Unit mg/Kg	<u>D</u>	Prepared 07/02/24 13:17	Analyzed 07/03/24 16:15	Dil Fac
Analyte	Result		RL		<u>D</u>			Dil Fac 1 1
Analyte Benzene	Result ND		RL 0.024	mg/Kg	<u>D</u>	07/02/24 13:17	07/03/24 16:15	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	Result ND ND		0.024 0.048	mg/Kg mg/Kg	<u>D</u>	07/02/24 13:17 07/02/24 13:17	07/03/24 16:15 07/03/24 16:15	Dil Fac 1 1 1 1

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

48 - 145

95

nethod. Et A 000.0 - Amons, for omornatography							
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

Eurofins Albuquerque

Released to Imaging: 4/15/2025 7:30:33 AM

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Client Sample ID: BH24-09 2.0'

Lab Sample ID: 885-7239-2 Date Collected: 06/28/24 08:40

Matrix: Solid

Date Received: 07/02/24 08:03

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.8	mg/Kg		07/02/24 13:17	07/03/24 16:37	1
(GRO)-C6-C10								
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 Comp	ounds (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 - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	•	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

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

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: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Date Received: 07/02/24 08:03

4-Bromofluorobenzene (Surr)

Client Sample ID: BH24-10 0.0'

Lab Sample ID: 885-7239-3 Date Collected: 06/28/24 08:45

Matrix: Solid

07/02/24 13:17

07/03/24 17:21

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC) Result Qualifier RL Unit D Prepared Analyzed Dil Fac 4.8 07/02/24 13:17 Gasoline Range Organics ND mg/Kg 07/03/24 17:21 (GRO)-C6-C10 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 07/02/24 13:17 07/03/24 17:21 4-Bromofluorobenzene (Surr) 99 35 - 166 Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier RL Unit D Prepared Dil Fac Analyte Analyzed ND 0.024 07/02/24 13:17 07/03/24 17:21 Benzene mg/Kg Ethylbenzene ND 0.048 mg/Kg 07/02/24 13:17 07/03/24 17:21 Toluene ND 0.048 07/02/24 13:17 07/03/24 17:21 mg/Kg Xylenes, Total ND 0.095 mg/Kg 07/02/24 13:17 07/03/24 17:21 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

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

48 - 145

94

method. LFA 300.0 - Amons, for chromatography									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	7200		300	mg/Kg		07/03/24 12:45	07/05/24 16:39	100

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Toluene

Xylenes, Total

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

07/03/24 17:43

07/03/24 17:43

07/02/24 13:17

07/02/24 13:17

Matrix: Solid

	-4
Dil Fac	5

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 - Volati	ile Organic Comp	ounds (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	ma/Ka		07/02/24 13:17	07/03/24 17:43	4

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

0.049

0.098

mg/Kg

mg/Kg

ND

ND

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 - Amons, for 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: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Date Received: 07/02/24 08:03

Client Sample ID: BH24-11 0.0'

Date Collected: 06/28/24 09:00

Lab Sample ID: 885-7239-5

Matrix: Solid

 Method: SW846 8015M/D - Ga	soline Range Org	janics (GRC)) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		07/02/24 13:17	07/03/24 18:05	1
(GRO)-C6-C10								
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 - Volat	ile Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	ma/Ka		07/02/24 13:17	07/03/24 18:05	

Method: SVV846 8021B - Volat	lie Organic Compo	ounas (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

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 Cr	iromatograpny		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						

2

5

9

10

11

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Client Sample ID: BH24-11 2.0'

Lab Sample ID: 885-7239-6 Date Collected: 06/28/24 09:05 Date Received: 07/02/24 08:03

Matrix: Solid

INICUIOU. SYVO40 OU ISINI/D - Gas	oline Range Org	anics (GRC) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		07/02/24 13:17	07/03/24 18:27	1
(GRO)-C6-C10								
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
Analyte Benzene	Result ND	Qualifier	RL 0.024	Unit mg/Kg	<u>D</u>	Prepared 07/02/24 13:17	Analyzed 07/03/24 18:27	Dil Fac
Method: SW846 8021B - Volatil Analyte	•			Unit	D	Prepared	Analyzed	Dil Fac
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 1
Toluene Xylenes, Total	ND ND		0.049 0.098	mg/Kg mg/Kg		07/02/24 13:17 07/02/24 13:17	07/03/24 18:27 07/03/24 18:27	1 1
		Qualifier		.				1 1 1 Dil Fac

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. El A 600.0 - Amons, for omonatography										
4	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
L	Chloride	150		60	mg/Kg		07/03/24 12:45	07/03/24 21:17	20	

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Date Received: 07/02/24 08:03

Client Sample ID: BH24-12 0.0'

Lab Sample ID: 885-7239-7 Date Collected: 06/28/24 09:15

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		07/02/24 13:17	07/03/24 18:49	1
(GRO)-C6-C10								
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 - Volati	•	• •		Unit	D	Prenared	Analyzed	Dil Fac
	•	ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	• •		Unit mg/Kg	<u>D</u>	Prepared 07/02/24 13:17	Analyzed 07/03/24 18:49	Dil Fac
Analyte	Result	• •	RL		<u>D</u>			Dil Fac
Analyte Benzene	Result ND	• •	RL 0.025	mg/Kg	<u>D</u>	07/02/24 13:17	07/03/24 18:49	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	Result ND ND	• •	0.025 0.049	mg/Kg	<u>D</u>	07/02/24 13:17 07/02/24 13:17	07/03/24 18:49 07/03/24 18:49	Dil Fac 1 1 1 1
Analyte Benzene Ethylbenzene Toluene	Result ND ND ND	Qualifier	RL 0.025 0.049 0.049	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/02/24 13:17 07/02/24 13:17 07/02/24 13:17	07/03/24 18:49 07/03/24 18:49 07/03/24 18:49	Dil Fac 1 1 1 1 1 Dil Fac

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. El A 000.0 - Allions, lon o	momatograp	'''y						
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: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Client Sample ID: BH24-12 2.0'

Lab Sample ID: 885-7239-8

Date Collected: 06/28/24 09:20 Matrix: Solid Date Received: 07/02/24 08:03

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		07/02/24 13:17	07/03/24 19:11	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	103		35 - 166			07/02/24 13:17	07/03/24 19:11	
- Method: SW846 8021B - Volatile	e Organic Comp	ounds (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 Fa
4-Bromofluorobenzene (Surr)	91		48 - 145			07/02/24 13:17	07/03/24 19:11	
- Method: SW846 8015M/D - Dies	el Range Organ	ics (DRO) (GC)					
Analyte	•	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

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 Cl	hromatography						
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: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Surrogate

Analyte

Chloride

Di-n-octyl phthalate (Surr)

Method: EPA 300.0 - Anions, Ion Chromatography

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

Prepared

07/03/24 09:46

Prepared

07/03/24 12:45

Analyzed

07/03/24 16:00

Analyzed

07/03/24 21:54

M

latrix:	Solid

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 Comp	ounds (GC))					
Analyte		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 - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		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

Limits

62 - 134

RL

59

Unit

mg/Kg

%Recovery Qualifier

Result Qualifier

92

470

Eurofins Albuquerque

Dil Fac

Dil Fac

20

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Date Received: 07/02/24 08:03

Surrogate

4-Bromofluorobenzene (Surr)

Client Sample ID: BH24-13 2.0'

Date Collected: 06/28/24 13:10

Lab Sample ID: 885-7239-10

Analyzed

07/03/24 19:55

Prepared

07/02/24 13:17

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.8	mg/Kg		07/02/24 13:17	07/03/24 19:55	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati	92 lle Organic Comp	ounds (GC)	35 - 166			07/02/24 13:17	07/03/24 19:55	1
-	le Organic Comp	ounds (GC)		Unit	D	07/02/24 13:17 Prepared	07/03/24 19:55 Analyzed	1 Dil Fac
Method: SW846 8021B - Volati	le Organic Comp			Unit mg/Kg	<u>D</u>			Dil Fac
Method: SW846 8021B - Volati Analyte	le Organic Comp		RL		<u>D</u>	Prepared	Analyzed	1 Dil Fac 1
Method: SW846 8021B - Volati Analyte Benzene	lle Organic Comp Result ND		RL 0.024	mg/Kg	<u>D</u>	Prepared 07/02/24 13:17	Analyzed 07/03/24 19:55	1 Dil Fac 1 1 1 1

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	

Limits

48 - 145

%Recovery Qualifier

90

metriod. El A 000.0 - Amoris, for o	momatography						
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: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Date Received: 07/02/24 08:03

Client Sample ID: BH24-14 0.0'

Date Collected: 06/28/24 13:20

Lab Sample ID: 885-7239-11

Matrix: Solid

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 - Volati	ile Organic Comp	ounds (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

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

Surrogate %R	ecovery	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 - Diese	l Range Organi	cs (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 C	nromatograp	iny						
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

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.8	mg/Kg		07/02/24 13:17	07/03/24 20:38	1
(GRO)-C6-C10								
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 Comp	ounds (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 - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		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

RL

60

Unit

mg/Kg

Prepared

07/03/24 12:45

Analyzed

07/03/24 22:31

Dil Fac

20

Result Qualifier

330

Released to Imaging: 4/15/2025 7:30:33 AM

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	ND		4.9	mg/Kg		07/03/24 08:25	07/08/24 10:48	
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	102		35 - 166			07/03/24 08:25	07/08/24 10:48	
Method: SW846 8021B - Volatile	Organic Comp	ounds (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	•
Ethylbenzene	ND		0.049	mg/Kg		07/03/24 08:25	07/08/24 10:48	•
Toluene	ND		0.049	mg/Kg		07/03/24 08:25	07/08/24 10:48	
Xylenes, Total	ND		0.099	mg/Kg		07/03/24 08:25	07/08/24 10:48	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	93		48 - 145			07/03/24 08:25	07/08/24 10:48	
- Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (0	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	•
Motor Oil Range Organics [C28-C40]	53		46	mg/Kg		07/03/24 14:13	07/05/24 10:03	,
Motor Oil Range Organics	53 %Recovery	Qualifier	46 Limits	mg/Kg		07/03/24 14:13 Prepared	07/05/24 10:03 Analyzed	Dil Fa
Motor Oil Range Organics [C28-C40]		Qualifier		mg/Kg				Dil Fa
Motor Oil Range Organics [C28-C40] Surrogate	%Recovery 103		Limits	mg/Kg		Prepared	Analyzed	
Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	%Recovery 103 Chromatograp		Limits	mg/Kg Unit	D	Prepared	Analyzed	Dil Fac

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Client Sample ID: BH24-07 4.0'

Lab Sample ID: 885-7239-14

Date Collected: 06/29/24 08:10 Matrix: Solid

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 Comp	ounds (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)	91		48 - 145			07/03/24 08:25	07/08/24 11:54	1
Method: SW846 8015M/D - Diese	Range Organ	ics (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	Chromatograp	hy						
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: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Client Sample ID: BH24-16 0.0'

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

610

Analyte

Chloride

Lab Sample ID: 885-7239-17 Date Collected: 06/29/24 08:30

Matrix: Solid

Date Received: 07/02/24 08:03

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.6	mg/Kg		07/12/24 12:16	07/13/24 17:28	1
(GRO)-C6-C10								
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 Comp	ounds (GC))					
Analyte		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 - Diese	Range Organ	ics (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

RL

60

Unit

mg/Kg

Prepared

07/15/24 12:48

Analyzed

07/15/24 16:02

Dil Fac

20

Eurofins Albuquerque

Released to Imaging: 4/15/2025 7:30:33 AM

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		07/12/24 12:16	07/13/24 17:52	1
(GRO)-C6-C10								
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 Comp	ounds (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 - Diese	l Range Organ	ics (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	Chromatograp	hy						

60

mg/Kg

07/15/24 12:48

07/15/24 16:39

20

150

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	MD		5.0	mg/Kg		07/03/24 08:25	07/08/24 12:59	1
(GRO)-C6-C10								
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 - Volati Analyte	Result	Ounds (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte	Result		RL		<u>D</u>			Dil Fac
Analyte Benzene	Result ND		RL 0.025	mg/Kg	<u>D</u>	07/03/24 08:25	07/08/24 12:59	Dil Fac
Analyte Benzene Ethylbenzene	Result ND ND		0.025 0.050	mg/Kg	<u>D</u>	07/03/24 08:25 07/03/24 08:25	07/08/24 12:59 07/08/24 12:59	Dil Fac
	Result ND		RL 0.025	mg/Kg	<u>D</u>	07/03/24 08:25	07/08/24 12:59	1 1 1
Analyte Benzene Ethylbenzene Toluene	Result ND ND		0.025 0.050	mg/Kg	<u>D</u>	07/03/24 08:25 07/03/24 08:25	07/08/24 12:59 07/08/24 12:59	Dil Fac 1 1 1 1
Analyte Benzene Ethylbenzene	Result ND ND ND	Qualifier	RL 0.025 0.050 0.050	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/03/24 08:25 07/03/24 08:25 07/03/24 08:25	07/08/24 12:59 07/08/24 12:59 07/08/24 12:59	Dil Fac 1 1 1 1 1 Dil Fac

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

Welliou. EPA 300.0 - Allions, lon C	inomatography						
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: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		07/03/24 08:25	07/08/24 13:21	1
(GRO)-C6-C10								
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 Comp	ounds (GC))					
Analyte		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 - Diese	Range Organ	ics (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

RL

150

Unit

mg/Kg

Prepared

07/05/24 11:52

Analyzed

07/08/24 17:39

Dil Fac

50

Result Qualifier

2300

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		07/03/24 08:25	07/08/24 13:43	1
(GRO)-C6-C10								
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 Comp	ounds (GC))					
Analyte	•	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 - Diese	l Range Organ	ics (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

RL

60

Unit

mg/Kg

Prepared

07/05/24 11:52

Analyzed

07/05/24 13:49

Dil Fac

20

Result Qualifier

1300

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Surrogate

4-Bromofluorobenzene (Surr)

Client Sample ID: BH24-02 8.0'

Date Collected: 06/29/24 11:40 Date Received: 07/02/24 08:03 Lab Sample ID: 885-7239-22

Analyzed

07/08/24 14:04

Dil Fac

Prepared

07/03/24 08:25

Matrix: Solid

Method: SW846 8015M/D - Gas	oline Range Org	anics (GRC) (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
	e Organic Comp	ounds (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
Ethylbenzene Toluene	ND ND		0.049 0.049	mg/Kg mg/Kg		07/03/24 08:25 07/03/24 08:25	07/08/24 14:04 07/08/24 14:04	1 1 1

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	

Limits

48 - 145

%Recovery Qualifier

91

	ilictifod. El A 000.0 - Alliona, ion o	ın omatograp	'iiy						
1	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

Job ID: 885-7239-1 Client: Vertex

Project/Site: JRU D1 1A CTB

Dil Fac

Dil Fac

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

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

Matrix: Solid

(GRO)-C6-C10

Surrogate

Analyte

Analysis Batch: 7936

Gasoline Range Organics

MB MB

MB MB

Result Qualifier ND

RL5.0 Unit mg/Kg

Prepared 07/02/24 13:17

D

Analyzed 07/03/24 11:30

Client Sample ID: Method Blank

%Recovery Qualifier 92

Limits 35 - 166

Prepared Analyzed 07/02/24 13:17

98

07/03/24 11:30

Prep Type: Total/NA

Prep Batch: 7806

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

Prep Batch: 7806

Matrix: Solid

Analysis Batch: 7936

Gasoline Range Organics

4-Bromofluorobenzene (Surr)

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

Analyte

Spike babbA 25.0

LCS LCS Result Qualifier 24.5

Unit mg/Kg D %Rec

Limits 70 - 130

Client Sample ID: Method Blank

Analyzed

07/08/24 10:26

Analyzed

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 7846

Prep Batch: 7846

(GRO)-C6-C10

LCS LCS

Surrogate 4-Bromofluorobenzene (Surr) %Recovery Qualifier Limits 206 S1+ 35 - 166

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

Matrix: Solid

Analysis Batch: 8101

MB MB Result Qualifier

ND

Analyte Gasoline Range Organics (GRO)-C6-C10

Lab Sample ID: LCS 885-7846/2-A

4-Bromofluorobenzene (Surr)

MB MB %Recovery Qualifier 95

Limits 35 - 166

Spike

Added

Limits

35 - 166

25.0

RL

5.0

LCS LCS

Qualifier

Unit

mg/Kg

Result

23.2

Unit

mg/Kg

Prepared 07/03/24 08:25

D

%Rec

93

Prepared

07/03/24 08:25

D

07/08/24 10:26

%Rec

Limits

70 - 130

Client Sample ID: Lab Control Sample

Dil Fac

Dil Fac

Matrix: Solid

(GRO)-C6-C10

Surrogate

Analysis Batch: 8101

Analyte Gasoline Range Organics

Surrogate

4-Bromofluorobenzene (Surr)

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

Analysis Batch: 8101

Gasoline Range Organics ND (GRO)-C6-C10

Sample Sample Result Qualifier

LCS LCS

201 S1+

Qualifier

%Recovery

Spike Added 24.7

Result 21.4

MS MS

Qualifier Unit mg/Kg

87

%Rec Limits 70 - 130

Client Sample ID: BH24-02 4.0'

Prep Type: Total/NA

Prep Batch: 7846

Job ID: 885-7239-1

Prep Type: Total/NA

Prep Batch: 7846

Client Sample ID: BH24-02 4.0'

Project/Site: JRU D1 1A CTB

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

Lab Sample ID: 885-7239-13 MS

Matrix: Solid

Client: Vertex

Analysis Batch: 8101

MS MS

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

Lab Sample ID: 885-7239-13 MSD Client Sample ID: BH24-02 4.0' Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 8101

Prep Batch: 7846 MSD MSD Sample Sample Spike %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics ND 24.8 21.0 mg/Kg 85 70 - 130 20

(GRO)-C6-C10

MSD MSD

Surrogate %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

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics ND 5.0 mg/Kg 07/12/24 12:16 07/13/24 17:05

(GRO)-C6-C10

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 98 35 - 166 07/12/24 12:16 07/13/24 17:05

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

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 25.0 24.0 mg/Kg 96 70 - 130 Gasoline Range Organics

(GRO)-C6-C10

LCS LCS

Surrogate %Recovery Qualifier Limits 210 S1+ 35 - 166 4-Bromofluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

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

Released to Imaging: 4/15/2025 7:30:33 AM

Matrix: Solid

Analysis Batch: 7937

Client Sample ID: Method Blank

Prep Batch: 7806

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

mg/Kg

Eurofins Albuquerque

Prep Type: Total/NA

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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

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

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

Matrix: Solid

Matrix: Solid

Analysis Batch: 7937

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

Client Sample ID: Lab Control Sample

Prep Batch: 7806

Prep Type: Total/NA

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

LCS LCS

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

Lab Sample ID: MB 885-7846/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 8102

MB MB

Prep Type: Total/NA

Prep Batch: 7846

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

MB MB

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

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

Matrix: Solid

Analysis Batch: 8102

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	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

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

Eurofins Albuquerque

Prep Batch: 7846

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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

	Sample Sample	Spike	MS	MS				%Rec	
Analyte	Result Qualifie	r Added	Result	Qualifier	Unit	D	%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	
	MS MS								

Surrogate %Recovery Qualifier Limits 48 - 145 4-Bromofluorobenzene (Surr) 91

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

,											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

MSD MSD

%Recovery Qualifier Limits Surrogate 48 - 145 4-Bromofluorobenzene (Surr) 91

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

	IVID	MID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		07/12/24 12:16	07/13/24 17:05	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

MB MB

MR MR

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 93 48 - 145 07/12/24 12:16 07/13/24 17:05

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

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%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	
m-Xylene & p-Xylene o-Xylene	2.00 1.00	1.74 0.841		mg/Kg mg/Kg		87 84	70 - 130 70 - 130	

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Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Client: Vertex

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

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

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits D Xylenes, Total 3 00 2 58 86 70 - 130 mg/Kg

LCS LCS

Surrogate %Recovery Qualifier 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 Analysis Batch: 7876

MB MB

Prep Type: Total/NA Prep Batch: 7860

Analyzed

D Dil Fac Analyte Result Qualifier RL Unit Prepared Diesel Range Organics [C10-C28] 10 07/03/24 09:46 07/03/24 12:35 ND mg/Kg Motor Oil Range Organics [C28-C40] ND 50 07/03/24 09:46 07/03/24 12:35 mg/Kg MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 83 62 - 134 07/03/24 09:46 07/03/24 12:35 Di-n-octyl phthalate (Surr)

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

Spike LCS LCS %Rec Added Qualifier Unit %Rec Analyte Result 50.0 49.3 99 60 - 135 Diesel Range Organics mg/Kg

[C10-C28]

LCS LCS

Qualifier Limits Surrogate %Recovery Di-n-octyl phthalate (Surr) 89 62 - 134

Lab Sample ID: 885-7239-12 MS

Matrix: Solid

Analysis Batch: 7876

Client Sample ID: BH24-14 2.0'

Prep Type: Total/NA

Prep Batch: 7860

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 50.0 95 44 - 136 Diesel Range Organics ND 47.3 mg/Kg

[C10-C28]

MS MS

%Recovery Qualifier Limits Surrogate Di-n-octyl phthalate (Surr) 92 62 - 134

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

RPD RPD Limit

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

[C10-C28]

Project/Site: JRU D1 1A CTB

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

Lab Sample ID: 885-7239-12 MSD Client Sample ID: BH24-14 2.0'

Limits

Matrix: Solid

Matrix: Solid

Analysis Batch: 7876

Di-n-octyl phthalate (Surr)

Lab Sample ID: MB 885-7883/1-A

Prep Type: Total/NA

Prep Batch: 7860

MSD MSD Surrogate

%Recovery Qualifier 99

62 - 134

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

Prep Batch: 7883

Analysis Batch: 7925

мв мв

Prepared Analyzed Dil Fac

Analyte Result Qualifier RL Unit D Diesel Range Organics [C10-C28] ND 10 mg/Kg 07/03/24 14:13 07/05/24 09:42 Motor Oil Range Organics [C28-C40] ND 50 07/03/24 14:13 07/05/24 09:42 mg/Kg

MB MB

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

Lab Sample ID: LCS 885-7883/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 7925

Prep Batch: 7883 LCS LCS %Rec

Analyte Added Result Qualifier Unit D %Rec Limits 50.0 47.9 **Diesel Range Organics** mg/Kg 96 60 - 135

Spike

[C10-C28]

Matrix: Solid

LCS LCS

%Recovery Surrogate Qualifier Limits Di-n-octyl phthalate (Surr) 103 62 - 134

Lab Sample ID: MB 885-8353/1-A

Analysis Batch: 8410

Prep Type: Total/NA Prep Batch: 8353

Client Sample ID: Method Blank

Qualifier RL Unit Prepared Dil Fac Result Analyzed Diesel Range Organics [C10-C28] ND 10 07/12/24 14:53 07/15/24 11:46 mg/Kg Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 07/12/24 14:53 07/15/24 11:46

MB MB

MB MB

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed Di-n-octyl phthalate (Surr) 90 62 - 134 07/12/24 14:53 07/15/24 11:46

Lab Sample ID: LCS 885-8353/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 8410

Prep Type: Total/NA

Prep Batch: 8353

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit Limits %Rec Diesel Range Organics 50.0 42.5 85 60 - 135 mg/Kg

[C10-C28]

LCS LCS

%Recovery Surrogate Qualifier Limits Di-n-octyl phthalate (Surr) 82

62 - 134

Project/Site: JRU D1 1A CTB

Client: Vertex

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

мв мв Result Qualifier RLUnit D Prepared Analyzed Dil Fac ND 3.0 mg/Kg 07/03/24 12:45 07/03/24 16:33

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

Matrix: Solid

Analyte

Chloride

Chloride

Analysis Batch: 7895 Analyte

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

Prep Batch: 7880 Spike LCS LCS Added Result Qualifier Unit D %Rec Limits 30.0 27.8 mg/Kg 93 90 - 110

Lab Sample ID: MB 885-7943/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 8013

мв мв

Analyte Result Chloride ND

Qualifier

RL

3.0

Unit D

mg/Kg

Prepared 07/05/24 11:52

Analyzed 07/05/24 12:30

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 7952

Prep Batch: 7943

Dil Fac

Prep Type: Total/NA

Prep Batch: 7943

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

Matrix: Solid

Chloride

Analysis Batch: 8013

Analyte

Spike Added 30.0

LCS LCS Result Qualifier 29.6

Unit mg/Kg

D %Rec

%Rec Limits 90 - 110

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Limits

90 - 110

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

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

Matrix: Solid

Analysis Batch: 8024

MR MR

Analyte Result Qualifier Chloride ND

RL Unit 3.0 mg/Kg

Prepared 07/05/24 15:35

Analyzed Dil Fac 07/05/24 17:03

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

Matrix: Solid

Analyte

Chloride

Analysis Batch: 8024

Spike Added

30.0

LCS LCS Result Qualifier 28 2

Unit mg/Kg D %Rec Prep Batch: 7952

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: MB 885-8013/4

Matrix: Solid

Analysis Batch: 8013

мв мв

Result Qualifier Analyte Chloride ND

RL 0.50 Unit mg/Kg Prepared

Dil Fac Analyzed 07/05/24 10:52

Lab Sample ID: MRL 885-8013/3

Matrix: Solid

Chloride

Analysis Batch: 8013

Analyte

Spike Added 0.500

MRL MRL Result 0.564

Qualifier

Unit mg/L

%Rec 113

%Rec Limits 50 - 150

Client: Vertex

Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-8025/1-A Client Sample ID: Method Blank

Matrix: Solid Analysis Batch: 8052

Analyte

Chloride

Prep Type: Total/NA Prep Batch: 8025

мв мв Result Qualifier RLUnit D Prepared Analyzed Dil Fac ND 3.0 mg/Kg 07/08/24 12:29 07/08/24 15:56

Lab Sample ID: LCS 885-8025/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Prep Batch: 8025

Analysis Batch: 8052 Spike LCS LCS %Rec

Added Analyte Result Qualifier Unit D %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 Prep Type: Total/NA

Matrix: Solid Analysis Batch: 8052

MRL MRL Spike

%Rec Analyte Added Result Qualifier Unit %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

мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 0.50 07/09/24 09:07 Chloride ND mg/Kg

Lab Sample ID: MRL 885-8135/8 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 8135

Spike MRL MRL %Rec Analyte Added Result Qualifier Unit %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

Analysis Batch: 8467

Prep Type: Total/NA Prep Batch: 8431

мв мв

Result Dil Fac Analyte Qualifier RL Unit D Prepared Analyzed Chloride ND 3.0 mg/Kg 07/15/24 12:48 07/15/24 15:37

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

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Prep Batch: 8025

QC Association Summary

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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	_
385-7239-2	BH24-09 2.0'	Total/NA	Solid	5030C	
385-7239-3	BH24-10 0.0'	Total/NA	Solid	5030C	
385-7239-4	BH24-10 2.0'	Total/NA	Solid	5030C	
385-7239-5	BH24-11 0.0'	Total/NA	Solid	5030C	
385-7239-6	BH24-11 2.0'	Total/NA	Solid	5030C	
385-7239-7	BH24-12 0.0'	Total/NA	Solid	5030C	
385-7239-8	BH24-12 2.0'	Total/NA	Solid	5030C	
385-7239-9	BH24-13 0.0'	Total/NA	Solid	5030C	
885-7239-10	BH24-13 2.0'	Total/NA	Solid	5030C	
385-7239-11	BH24-14 0.0'	Total/NA	Solid	5030C	
385-7239-12	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	
_CS 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

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QC Association Summary

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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	

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Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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

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Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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 885-7239-17	Client Sample ID BH24-16 0.0'	Prep Type Total/NA	Matrix Solid	Method 8015M/D	Prep Batch 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	

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Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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

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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

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Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

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

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Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Client: Vertex

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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Date Received: 07/02/24 08:03

Client Sample ID: BH24-10 2.0'

Lab Sample ID: 885-7239-4 Date Collected: 06/28/24 08:50

Matrix: Solid

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

Client Sample ID: BH24-11 0.0'

Lab Sample ID: 885-7239-5 Date Collected: 06/28/24 09:00

Matrix: Solid

Date Received: 07/02/24 08:03

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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'

Lab Sample ID: 885-7239-6 Date Collected: 06/28/24 09:05

Matrix: Solid

Date Received: 07/02/24 08:03

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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'

Lab Sample ID: 885-7239-7

Date Collected: 06/28/24 09:15 Matrix: Solid Date Received: 07/02/24 08:03

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Client: Vertex

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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Lab Sample ID: 885-7239-8

Client Sample ID: BH24-12 2.0' Date Collected: 06/28/24 09:20 **Matrix: Solid**

Date Received: 07/02/24 08:03

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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' Lab Sample ID: 885-7239-9

Date Collected: 06/28/24 13:00 **Matrix: Solid**

Date Received: 07/02/24 08:03

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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' Lab Sample ID: 885-7239-10 Date Collected: 06/28/24 13:10 **Matrix: Solid**

Date Received: 07/02/24 08:03

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Client: Vertex

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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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 8015M/D EET ALB 07/03/24 16:22 Analysis 7876 PD 1 Total/NA Prep 300 Prep **EET ALB** 07/03/24 12:45 7880 RC EET ALB 07/03/24 22:19 Total/NA Analysis 300.0 20 7895 MA Lab Sample ID: 885-7239-12

Client Sample ID: BH24-14 2.0'

Date Collected: 06/28/24 13:30 Date Received: 07/02/24 08:03

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

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Matrix: Solid

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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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 Sam	ple ID:	885-7	7239-19	
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Client: Vertex

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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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'

Date Collected: 06/29/24 10:40 Date Received: 07/02/24 08:03 Lab Sample ID: 885-7239-20

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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'

Date Collected: 06/29/24 11:30 Date Received: 07/02/24 08:03 Lab Sample ID: 885-7239-21

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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'

Date Collected: 06/29/24 11:40

Date Received: 07/02/24 08:03

	100	10			00
.ab Sa	mble	ID:	885-	1239	-22

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Lab Chronicle

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Client Sample ID: BH24-02 8.0'

Lab Sample ID: 885-7239-22

Date Collected: 06/29/24 11:40

Date Received: 07/02/24 08:03

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

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Accreditation/Certification Summary

Client: Vertex Job ID: 885-7239-1

Project/Site: JRU D1 1A CTB

Laboratory: Eurofins Albuquerque

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

uthority	Progra	am	Identification Number	Expiration Date
ew Mexico	State		NM9425, NM0901 02-26-25	
,	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This lis	t may include analytes
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 [C	10-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	
regon	NELA	o	NM100001	02-26-25

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Received by OCD: 1/21/2025	12:32:01 PM				TI			Pag	ge 121 of 188
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HALL ENVIR ANALYSIS L www.hallenvironment kins NE - Albuquerque 845-3975 Fax 505-	⁵ OS ' ⁵ Od ' ² ON ' ⁸ O	CI)F, Br, N						£ ~	Vertek.Ca Vertek.Ca Vertex.Ca
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4901 Tel.	GRO / DRO / MRO))—	+			1113	arks:	SCar ALV ALV
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cord	Validation)	Φ	0.0	2.0'	0.0,	2.0′	70,0	i	ental may be suit
Chain-of-Custody Record Vertex (XTO Energy) Ig Address: On File + **	☐ Level 4 (Full Validation)	Sample Name	BH24-09 RH24-09	01- NCH8	BH 24-11 BH24-11	BH24-12 BH24-12	BH24-13 BH24-13 BH24-14	ed by.	Time Relinquished by Received by VIa Date Time Cost Center # 1082/51001 (COST COST CONTRACT OF COST COST COST COST COST COST COST COST
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Chain-of	email or Fax#: QA/QC Package: Standard Accreditation: NELAC	Time	0835	0845 0850	0900	09 15 09 25	1370	Time	
Client: \ Mailing A	email or Fax#: QA/QC Package: Standard Accreditation: NELAC	Date	6.28,24 0835 1 0840						Date

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-7239-1

Login Number: 7239 List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

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	

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ATTACHMENT 6

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

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

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

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

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

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

QUESTIONS

Action 338029

QUESTIONS

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	338029
ı		Action Type:
ı		[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.			

District I
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Phone: (575) 393-6161 Fax: (575) 393-0720

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 338029

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	ΠONS (continued)
Operator: XTO ENERGY, INC	OGRID: 5380
6401 Holiday Hill Road Midland, TX 79707	Action Number: 338029
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)
QUESTIONS	[o rriginada o rri (o rri v mada)
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 The source of the release has been stopped	T
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.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface out does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com

Date: 04/26/2024

District I

storage site

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 3

Action 338029

QUESTIONS (continued)

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

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 elease discovery date. What is the shallowest depth to groundwater beneath the area affected by the Not answered. release in feet below ground surface (ft bgs) 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 Not answered for domestic or stock watering purposes 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

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 de-	etermine if another remediation plan submission is required.			

Not answered.

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

CONDITIONS

Action 338029

CONDITIONS

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

CONDITIONS

Create		Condition Date
scwe	ls None	4/26/2024



APPENDIX B

Referenced Well Records



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging.

Existing	Office of the State Engi	neer POD Numbe	er (Well Nur	nber) foi	r well to	be plugged:_	C 01916		
Name of	f well owner: <u>BOP</u>	CO L.P.							
Mailing	address: P.O.	Box 2760							
City:	Midland		State:		Texas		Zip cod	le: <u>797</u>	'02
Phone n	umber: 432-	556 -8730		_ E-mai	l:	TASavoie@	Basspet.com		
III. WE	ELL DRILLER INFOR	RMATION:							
Well Dr	iller contracted to provid	le plugging service	es:	Straub	Согрога	tion – Raymo	nd Straub		
New Me	exico Well Driller Licens	se No.: WD-	1478			Expiration	Date:		
Note: A	CLL INFORMATION: Copy of the existing We GPS Well Location: Reason(s) for plugging useable quality.	Latitude: Longitude: well:	32 -103 Water w	_deg, _deg, vell is in	22 53 the path	min,54 min,00 of new const	sec 0.57 sec, NAI ruction. Water q		<u>ow</u>
3)	Was well used for any what hydrogeologic pawater, authorization from	rameters were m	onitored. 1	f the we	ell was	used to moni	tor contaminate	d or poor q	
4)	Does the well tap brack	ish, saline, or othe	erwise poor	quality v	vater? _	YES I	f yes, provide ac	Iditional deta	ail,
	including analytical res	ults and/or labora	tory report(s	s):	See A	ttachments			
		<u></u>							
5)	Static water level: ~ 11	0 feet below la	nd surface /	feet abo	ve land	surface (cire	cle one)		
						`	,		
6)	Depth of the well:	1 <u>88</u> feet							

Well Plugging Plan Version: December, 2011 Page 1 of 5

> C-1916 465776

7)	Inside diameter of innermost casing: inches.					
8)	Casing material: Steel					
9)	The well was constructed with:					
	UNKWN an open-hole production interval, state the open interval:					
	<u>UNKWN</u> a well screen or perforated pipe, state the screened interval(s):					
10)	What annular interval surrounding the artesian casing of this well is cement-grouted?					
11)	Was the well built with surface casing?UNKWN If yes, is the annulus surrounding the surface casing					
	grouted or otherwise sealed? If yes, please describe:					
12)	Has all pumping equipment and associated piping been removed from the well? yes If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.					
V. DES	SCRIPTION OF PLANNED WELL PLUGGING:					
pipe, a	f this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional information, such as geophysical logs, that are necessary to adequately describe the proposal.					
1)	Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology					
	proposed for the well: The casing will be cut off below ground surface. A tremie line will be install and a					
	Portland Type II/ V Cement grout will be placed from the bottom to within 5' of the surface. A concrete cap will be					
	placed from 5' to 1' and the remainder will be filled with soil.					
2)	Will well head be cut-off below land surface after plugging?					
VI. PL	UGGING AND SEALING MATERIALS:					
Note: 7	The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant					
1)	For plugging intervals that employ cement grout, complete and attach Table A.					
2)	For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.					
3)	Theoretical volume of grout required to plug the well to land surface: 20 Sacks					
4)	Type of Cement proposed: See Attached Conditions of Approval C. 6 5% Fullers Earth / Type II/V Cement					
5)	Type of Cement proposed: See Attached Conditions of Approval C.6 See Attached Conditions of Approval C.6 Proposed cement grout mix: 8 gallons of water per 94 pound sack of Portland cement.					
6)	Will the grout be: batch-mixed and delivered to the site					
	$X_{\underline{\hspace{1cm}}}$ mixed on site					

Well Plugging Plan Version: December, 2011 Page 2 of 5

7)	Grout additives requested, and percent by dry w	eight relative to cement:	Salt water gel – T	he use of Fuller's						
	Earth is to help with leak-off to the formation. Since the formation water is high in chlorides, Volclay Sodium									
	Bentonite will not be acceptable. 5 LBS. of Gel	per 94 LBS. of cement		 :						
	SEE Attached (ionditions of	Approval	C.G.						
8)	Additional notes and calculations:	((dia.² * 0.005454)*De	pth)/ 1.25 cuft-bag	ft-bag						
VII.	ADDITIONAL INFORMATION: List additiona	l information below, or on se	parate sheet(s):							
	Public Land Survey is Section 21, Township 22 Sou		parate sheet(3).							
VIII	SICNATUDE.									
	SIGNATURE: Raymond L Straub Jr., P.G. , say that I	have carefully read the foreg	oing Well Plugging P	lan of Operations						
and a pertai	ny attachments, which are a part hereof; that I am faining to the plugging of wells and will comply with of Operations and attachments are true to the best of	amiliar with the rules and regithem, and that each and all o	ulations of the State E	ngineer .						
rian	of Operations and attachments are true to the best of	my knowledge and beller.								
				03/28/2013						
		Signature of Applicant		Date 20						
IX. A	ACTION OF THE STATE ENGINEER:			AIE OSWI						
				P ES						
This '	Well Plugging Plan of Operations is:			-						
	Approved subject to the attached cond Not approved for the reasons provided			WEER OFFICE						
	Witness my hand and official seal this	day of <u>April</u>	, 13	10E						
		Scott A. Verhines, Stat	e Engineer							
		By: Lin W	llions	•						
		Tim Williams								
		Carlsbad Bas	in Watermaster							

Well Plugging Plan Version: December, 2011 Page 3 of 5

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			5 feet
Bottom of proposed interval of grout placement (ft bgl)			188 feet
Theoretical volume of grout required per interval (gallons)			20 Sacks
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			8 gallons
Mixed on-site or batch- mixed and delivered?			On-site
Grout additive 1 requested			5% Saltwater Bentonite
Additive 1 percent by dry weight relative to cement			5 LBS.
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			STATE ENGINEER OFFICE RIDSWELL PO 1: 10

Well Plugging Plan Version: December, 2011 Page 4 of 5

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

STATE ENGINEER OF THE PROSVEN

Well Plugging Plan Version: December, 2011 Page 5 of 5



STATE OF NEW MEXICO

OFFICE OF THE STATE ENGINEER ROSWELL

Scott A. Verhines, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

April 17, 2013

BOPCO, L.P. P.O. Box 2760 Midland, Texas 79702

RE: Well Plugging Plan of Operations for C-1916

Greetings:

Enclosed is your copy of the Well Plugging Plan for the above referenced project. The attached Conditions of Approval modify your Plan in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted August 31, 2005 by the State Engineer. Should you have any questions about the Plan or Conditions of Approval please do not hesitate to contact our office.

Sincerely,

Catherine Goetz

Water Resource Specialist

District II Office of the State Engineer

Enclosures

cc: Office of the State Engineer Santa Fe

Straub Corporation

Analytical Laboratory Report for: BOPCO



Account Representative: Willis Mossman

Production Water Analysis

Listed below please find water analysis report from: Perry R Bass Wsw, WATER SUPPLY WELL

Lab Test Number		Sample Date	
201301003615	<u>-</u>	02/13/2013	
Specific Gravity: TDS: pH:	1.100 153402 6.65		
Cations		mg/L	
Calcium as Ca" Magnesium as Mg" Sodium as Na' Iron as Fe" Potassium as K' Barium as Ba" Strontium as Sr" Manganese as Mn" Anions		2669 2188 52812 9.49 7466.0 0.28 86.46 0.46	
Bicarbonate as HCO ₃		171	
Sulfate as SO ₄ ⁼ Chloride as Cl		6500 81500	STATE ENG ROSVI ^{ET} APR
Gases		mg/L	R -1
Carbon Dioxide as CO ₂ Hydrogen Sulfide as H ₂ S Lab Comments: SURFACE TEMP.=65.7°F		30 0.0	APR -1 P 1: 19

Analytical Laboratory Report for: BOPCO



Account Representative: Willis Mossman

DownHole SAT[™] Scale Prediction @ 250 deg. F

Sample Date	Location	
02/13/2013	WATER SUPPLY WELL	
Saturation Index	Momentary Excess (lbs/1000 bbls)	
0.46	-0.05	
0.00	-25.80	
6.85	1699.09	
1.55	710.25	
0.07	-6.67	
0.23	-487.80	
3.44	0.04	
0.04	-545840.63	
0.00	-1.34	
	02/13/2013 Saturation Index 0.46 0.00 6.85 1.55 0.07 0.23 3.44 0.04	Momentary Excess Saturation Index (Ibs/1000 bbls) 0.46 -0.05 0.00 -25.80 6.85 1699.09 1.55 710.25 0.07 -6.67 0.23 -487.80 3.44 0.04 0.04 -545840.63

Lacation

Interpretation of DHSat Results:

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) to positive (precipitating) values. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.





New Mexico Office of the State Engineer Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 199433

Transaction Desc: C 01916

File Date: 07/31/1980

Primary Status: EX

EXP Expired Permit

Secondary Status: EXP

Expired

Person Assigned: mvigil

Applicant: PERRY R. BASS

Events

Date	Туре	Description	Comment	Processed By
07/31/1980	APP	Application Received	•	mvigil
08/04/1980	FIN ·	Final Action on application		mvigil
08/04/1980	WAP	General Approval Letter		mvigil
09/01/1981	EXP	Expired Permit (well tog late)		mvigil

Change To:

WR File Nbr Acres Diversion Consumptive Purpose of Use

C 01916

PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL

**Point of Diversion DEVELOPME RESOURCE

C 01916 605068 3582947*

An () after northing value indicates UTM location was derived from PLSS - see Help

3

Remarks

WATER SUPPLY WELL FOR THE DRILLING OF JAMES RANCH UNIT #12.

Conditions

- 3 Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
- 5A A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor for each calendar month on or before the 10th day of the following month.
- The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.

Action of the State Engineer

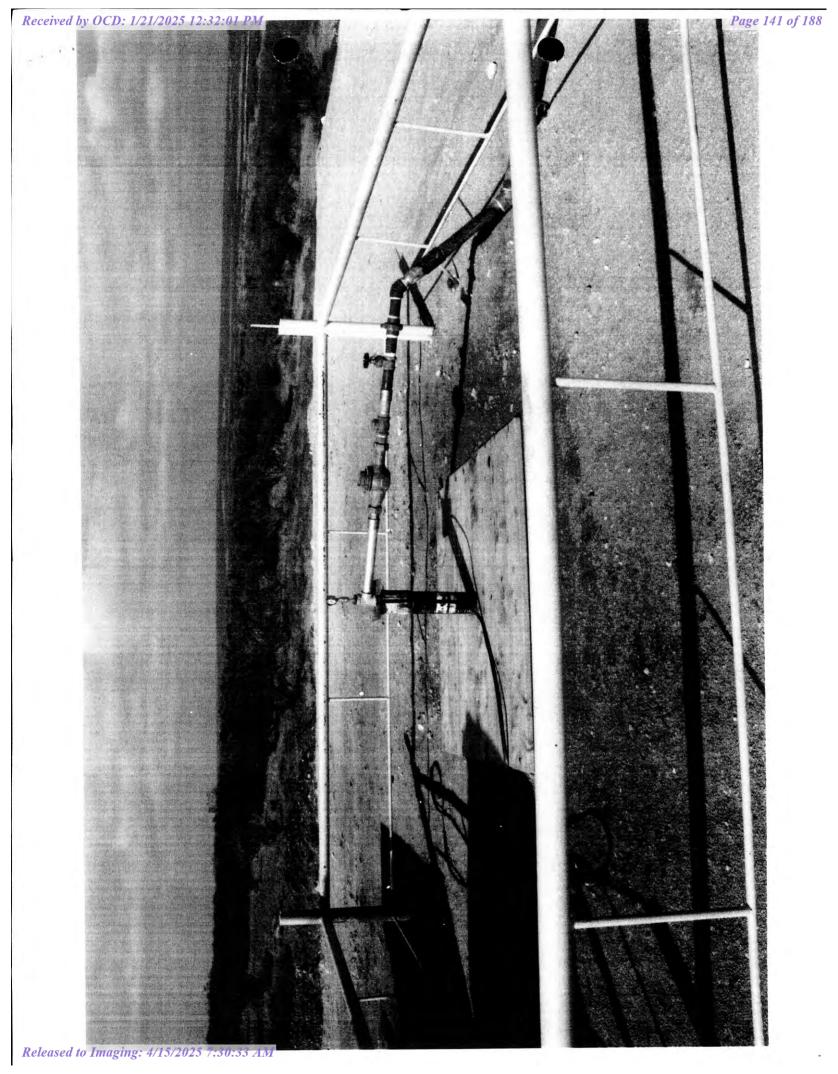
Approval Code: A - Approved Action Date: 08/04/1980 Log Due Date: 08/31/1981

State Engineer:

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

Conditions of Approval for C-1916 abandonment:

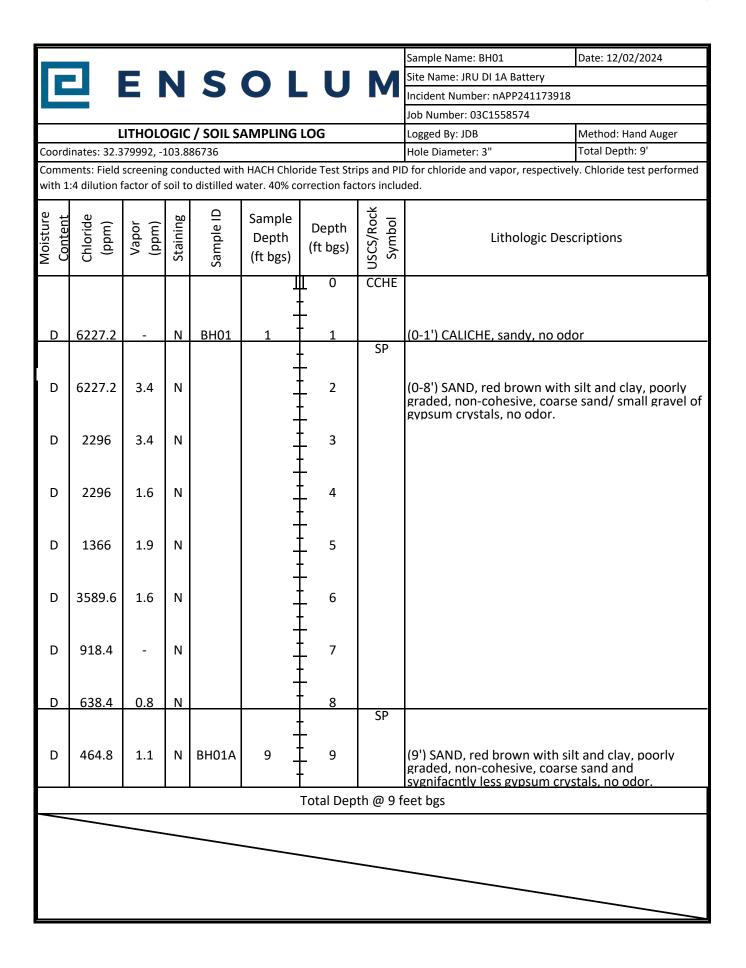
- 1) Plugging operations will be conducted in accordance with NMED, NMOCD, or other State or Federal agency having oversight for the above described project.
- 2) The well shall be plugged using a cement slurry (5.2 gals water per 94lb bag of Portland cement). It is understood that due to the high sulfate content Type V cement will be used as the data provided on water quality indicates 6,500 ppm sulfates. The cement grout will be pumped via tremie line from bottom up.
- 3) By item 2 above, the plan meets OSE requirements for tremie/grout abandonment, however, well records are not available to confirm well design/annular seals.





APPENDIX C

Lithologic Soil Sampling Logs





Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.

Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						_ 0	SP	
					_	<u> </u>		
D	9273.6	-	N	BH02	1 _	_ 1		(0-4') SAND, red brown with silt and clay gypsum crystals coarse gravel, no odor.
					_	<u>-</u>		gypsum crystais coarse graver, no odor.
D	3589.6	-	N		_	_ 2		
					_	<u>-</u>		
D	1080.8	1.1	N		_	_ 3		
					_	<u> </u>		
D	414.4	0.5	N	BH02A	4	4		

Total Depth @ 4 feet bgs



APPENDIX D

Photographic Log



Photographic Log

XTO Energy, Inc James Ranch Unit DI 1A Battery nAPP2411739118





Photograph: 1 Date: 06/27/2024

Description: Release extent area.

View: South

Photograph: 2 Date: 11/21/2024

Description: Release extent/deferral area.

View: Southeast





Photograph: 3 Date: 11/21/2024

Description: Excavation extent near FS04.

View: Southeast

Photograph: 4 Date: 12/02/2024

Description: Delineation activities, BH01.

View: East



Photographic Log

XTO Energy, Inc.

James Ranch Unit DI 1A Battery
nAPP2411739118



Photograph: 5 Date: 12/02/2024

Description: Site conditions near FS10.

View: Northeast



Photograph: 6 Date: 12/02/2024

Description: Deferral area.

View: East



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



December 04, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: JRU DI 1A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/03/24 13:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558574 Sample Received By: Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: BH 01 1' (H247333-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.05	103	2.00	2.99	
Toluene*	<0.050	0.050	12/03/2024	ND	2.11	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.10	105	2.00	2.88	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.25	104	6.00	2.85	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	199	99.4	200	2.68	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	182	91.1	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Reported: 12/04/2024

Project Name: JRU DI 1A BATTERY

Project Number: 03C1558574

Project Location: XTO 32.37996-103.88669 Sampling Date: 12/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: BH 01A 9' (H247333-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.05	103	2.00	2.99	
Toluene*	<0.050	0.050	12/03/2024	ND	2.11	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.10	105	2.00	2.88	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.25	104	6.00	2.85	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	199	99.4	200	2.68	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	182	91.1	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558574 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.37996-103.88669

ma/ka

Sample ID: BH 02 1' (H247333-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.05	103	2.00	2.99	
Toluene*	<0.050	0.050	12/03/2024	ND	2.11	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.10	105	2.00	2.88	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.25	104	6.00	2.85	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	199	99.4	200	2.68	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	182	91.1	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Reported: 12/04/2024

JRU DI 1A BATTERY

Project Name: Project Number: 03C1558574

Project Location: XTO 32.37996-103.88669 Sampling Date: 12/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: BH 02A 4' (H247333-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.05	103	2.00	2.99	
Toluene*	<0.050	0.050	12/03/2024	ND	2.11	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.10	105	2.00	2.88	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.25	104	6.00	2.85	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	199	99.4	200	2.68	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	182	91.1	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

			DI MAIO		MINAL	ANALTOIS REQUEST	
Project Manager:			P.O. #:				
Address: 3122 National Parks Hwy			Company: XTO Energy Inc	ly Inc			
City: Carlsbad	State: NM Z	Zip: 88220	Attn: Colton Brown				
Phone #: 337 257 8%	7 Fax #:		Address: 3104 E Green St	n St	_		_
Project #: 0301558 574	Project Owner: XTO	то	City: Carlsbad		_		_
Project Name: JRV DI 1	4 Bestery		State: NM Zip: 88220	20			
Project Location: 32, 37996	-10	9	Phone #:				
Sampler Name: Joshua Boxley	/		Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV. SAN	SAMPLING			
Lab I.D. Sample I.D.	Depth (feet)	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	Chlorides	BTEX.		
[0H3]		-	K	N ONTH	X		
	25 A Q			1515	8		
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Relinquished By:		Received By:	allelated	1 8 11	Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address: ☐ @ensolum.com, TMorrissey@ensolum.	☐ Yes ☐ No ☐ Add'I Phone #: emailed. Please provide Email address: - @ensolum.com, KThomason@ensolum.com	@ensolum.com
Relinquished-By:	Date: F	Received By:		REMARKS: Incident: Cost Center:	31162411172		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. *C	O.0 Sample Condition Cool Intact Yes Tyes	ion CHECKED BY:	Turnaround Time: Thermometer ID #445	standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes Oncorrected Temp. °C	iftion emp. °C



December 04, 2024

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: JRU DI 1A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/03/24 13:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558574 Sample Received By: Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: FS 01 4' (H247334-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.05	103	2.00	2.99	
Toluene*	<0.050	0.050	12/03/2024	ND	2.11	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.10	105	2.00	2.88	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.25	104	6.00	2.85	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.4	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558574 Sample Received By: Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: FS 02 1' (H247334-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.05	103	2.00	2.99	
Toluene*	<0.050	0.050	12/03/2024	ND	2.11	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.10	105	2.00	2.88	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.25	104	6.00	2.85	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558574 Sample Received By: Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: FS 03 1' (H247334-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.05	103	2.00	2.99	
Toluene*	<0.050	0.050	12/03/2024	ND	2.11	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.10	105	2.00	2.88	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.25	104	6.00	2.85	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	98.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.5	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03C1558574 Sample Received By:

Project Location: XTO 32.37996-103.88669

Sample ID: FS 04 1' (H247334-04)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2024	ND	2.05	103	2.00	2.99	
Toluene*	<0.050	0.050	12/04/2024	ND	2.11	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.10	105	2.00	2.88	
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.25	104	6.00	2.85	
Total BTEX	<0.300	0.300	12/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558574 Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: FS 05 1' (H247334-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2024	ND	2.05	103	2.00	2.99	
Toluene*	<0.050	0.050	12/04/2024	ND	2.11	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.10	105	2.00	2.88	
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.25	104	6.00	2.85	
Total BTEX	<0.300	0.300	12/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558574 Sample Received By: Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: FS 06 1' (H247334-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2024	ND	2.05	103	2.00	2.99	
Toluene*	<0.050	0.050	12/04/2024	ND	2.11	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.10	105	2.00	2.88	
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.25	104	6.00	2.85	
Total BTEX	<0.300	0.300	12/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558574 Sample Received By: Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: FS 07 1' (H247334-07)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2024	ND	2.05	103	2.00	2.99	
Toluene*	<0.050	0.050	12/04/2024	ND	2.11	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.10	105	2.00	2.88	
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.25	104	6.00	2.85	
Total BTEX	<0.300	0.300	12/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	94.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03C1558574 Sample Received By:

Project Location: XTO 32.37996-103.88669

Sample ID: FS 08 1' (H247334-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/03/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558574 Sample Received By: Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: FS 09 1' (H247334-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/03/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	< 0.050	0.050	12/03/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558574 Sample Received By: Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: FS 10 1' (H247334-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/03/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558574 Sample Received By: Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: SW 01 0-4' (H247334-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/03/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558574

Project Location: XTO 32.37996-103.88669

Sample ID: SW 02 0-1' (H247334-12)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/03/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558574 Sample Received By: Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: SW 03 0-1' (H247334-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/03/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	< 0.050	0.050	12/03/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558574

Project Location: XTO 32.37996-103.88669

Sample ID: SW 04 0-1' (H247334-14)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/03/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					
Surrogate: 1-Chlorooctane	99.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024 Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558574 Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: SW 05 0-1' (H247334-15)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/03/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	12/04/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558574 Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: SW 06 0-1' (H247334-16)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/03/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/04/2024	ND	464	116	400	3.51	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558574 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.37996-103.88669

Sample ID: SW 07 0-1' (H247334-17)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/03/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/04/2024	ND	464	116	400	3.51	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558574 Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: SW 08 0-1' (H247334-18)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/04/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/04/2024	ND	464	116	400	3.51	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558574 Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: SW 09 0-1' (H247334-19)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/04/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/04/2024	ND	464	116	400	3.51	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/03/2024 Sampling Date: 12/02/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558574 Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: SW 10 0-1' (H247334-20)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2024	ND	2.15	108	2.00	3.54	
Toluene*	<0.050	0.050	12/04/2024	ND	2.21	110	2.00	3.76	
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.32	116	2.00	5.26	
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.91	115	6.00	7.07	
Total BTEX	<0.300	0.300	12/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/04/2024	ND	464	116	400	3.51	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	202	101	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	180	89.9	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					
Surrogate: 1-Chlorooctane	83.8 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	0						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

† Cardinal cannot accept verbal changes. Please email changes to celey keefie@cardinallabsnm.com

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	Casalina III						1
Droipet Monay	(!			BILL TO		ANAI YCIC DE	OHEST
rioject manager:	acoma Mornissey	rsey		P.O. #:		- 1	NEWOEST
Address: 3122	Address: 3122 National Parks Hwy	1		Company: XTO Energy Inc	y Inc		
City: Carlsbad		State: NM	Zip: 88220	Attn: Colton Brown			
Phone #: 55	7287827	Fax #:		Address: 3104 E Green St	25		
Project #: 03	C1228217	Project Owner: XTO	er: XTO	City: Carlsbad			
Project Name:	DKU DK 1	A Wattery		State: NM Zin: 88220	8		
Project Location	Project Location: 32,37996	PT-88. 201-	9	1	8		
Sampler Name: Joshua Boxley	Joshua Boxley			Flore #:			
FOR LAB USE ONLY			MATRIX	1			
				PRESERV. SAM	SAMPLING		
Lab I.D. #247334	Sample I.D.	Depth (feet)	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	BTEX TPH Chlorides		
1	F50)	4	_ 	A	3 9	1	
7	183 4	1	\	-	1227		
C	F603	_			747		
4	Fron				200		
9	202				1200		
6	Free				13/12		
7	137				3		
oc.	5406						
9	1889				1330		
EASE NOTE: Liability and	F510	1	CI X	X 12.2.24	XXX 5221		
alyses. All claims including vice. In no event shall Card liates or successors arising	those for negligence and any other or linal be liable for incidental or consecutor or related to the performance	ause whatsoever shall be di luental damages, including of services hereunder by Co	y claim arising whether based in contract eemed waived unless made in writing and without limitation, business interruptions, i	ort, shall be limited to the amount paid seived by Cardinal within 30 days after of use, or loss of profits incurred by cli	by the client for the completion of the applicable ent, its subadianies,		
elinquished By:	aroll	Date: 7-3-24 Time: 7-10	Received By:	is based upon any of the above stated reas	e .∓	□ No Add'I Phone #:	
elinquished By:	16 00	Date:	Received By:	Malatak	Mars @ensolum.c	@ensolum.com; TMorrissey@ensolum.com, KThomason@ensolum.com	ı, KThomason@ensolum.com
		Time:	Toolean Dy.		REMARKS: AP 24117391166 Incident: WAP 24117391166 Cost Center:	1166	
Delivered By: (Circle One)		Observed Temp. "C	0.6 Sample Condition	CHECKED BY:	îme:		Complete
ampler - UPS - Bus - Other:		Corrected Temp. "C	OO Pres Pres	(Initials)	4	Rush Cool Intact	Cool Intact Observed Temp. °C
N DOOR INICOL	3.2 10/0/12		L NO		1		

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East	CAF
East Marland, Hobbs	RDII
bs, NM 88240	VAL

01 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

1		BILL TO	0	ANIAI VOID PROLITOR
dress 3422 Not MONON MIC	MOW STRY	P.O. #:		ANALISIS REQUEST
Cib.: Co-lot-1		Company: XTO Energy Inc	ergy Inc	
SDAO 11	State: NM Zip: 88220			
Frione #: 77 2 75 6 88	7 Fax #:	Address: 3104 E Green St	opp 64	
h1 485617	Project Owner: XTO	City: Carlehad		
	Markor	State: NM Zin: 00		
Project Location: 32.37986,	32.37986,-103, 2866d	Phono #.	2220	
Sampler Name: Joshua Boxley	50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
FOR LAB USE ONLY		Fax #:		
	P.	MATRIX PRESERV. S.	SAMPLING	
_	ERS		0	
H24'7334	G)RAB OR (CONTAINE	VASTEWATI OIL IL LUDGE THER: CID/BASE: E/COOL THER:		
11 SWO	#	V S S O S S O O O O O O O O O O O O O O	TIME	
12 SWOZ	0-1	X Inc. In	+	
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			1000	
15 SW05			1 80	
90MS 21			7.7	
A CANA			1325	
19 5000			1334	
	3		1245	
EASE NOTE: Liability and Damages. Cardinal's liability and clies Nyses. All claims including those for neglicence and any other	illy and client's exclusive remedy for any claim arising whe	ether based in contract or lort, shall be limited to the 2.2.74	N N Ger	
wce. In no event shall Cardinal be liable for incidental or consequences successors arising out of or related to the performance of the control of the performance of the control of the performance of the control of t	quental damages, including without limitation, to of services hereunder by Cardinal, regardless	wee. In no event shall Cardinal be liable for incidental or consequental damages, including without never unless made in writing and received by Cardinal within 30 days after completion of the applicable liable or successors arising out or or related to the performance of services hereunder by Cardinal, repartdess of whether such claim is heard in one sould be controlled by Cleint, its subsidiaries,	br completion of the applicable client, its subsidiaries,	
linkar.	2-3-24 Received By:	-	Verbal Result:	Add'l Phone #-
slinguished By:	Time: 49	musto Altaka	emaile @ens	d. Please provide Email address: elum.com, TMorrissey@ensolum.com, KThomason@ensolum.com
		5	72 det	8
mpler - UPS - Bus - Other: Corr	Corrected Tamp. "C 0.6 S	T E S	Turnaround Time: Standard Rush	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C
CVIII 200 K 3/2 10/0/121	† Cardinal cannot accep	Cardinal cannot accept verbal changes. Please email changes to celev keep acception of the company of the compa	Correction Factor -0.8°C TO-12/3/2	No No



APPENDIX F

Disposal Facility Manifests

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information Name David Burd Phone No.

9		GENE	RATOR	NO.HV	V- 717394
Generator Manifest #	VED		Location of Origin	DIADIA	10
Generator Name Address	×10		Name & No. County	KUDITAC	.713
			API No.		APP2H11739118
City, State, Zip Phone No.			Rig Name & No. <	1082551001	
Oil Based Muds	EXEMPT E&P Waste,	Service Identification and Amoun NON-INJECTABLE WATERS	t (place volume next to waste		
Oil Based Cuttings Water Based Muds		Washout Water (Non-Injectable) Completion Fluid/Flow Back (Non-Inje	estable)	OTHER EXEMPT E&P WASTE S	THEAMS
Water Based Cuttings Produced Formation Solids		Produced Water (Non-Injectable) Gathering Line Water/Waste (Non-In		Bellydump	
Tank Bottoms E&P Contaminated Soil		INTERNAL USE ONLY		TOP SOIL & CALICHE SALES	
Gas Plant Waste WASTE GENERATION P	ROCESS: DRILLING	Truck Washout (exempt waste) COMPLETION	YES NO PRODUCTION	QUANTITY GATHERING	TOP SOIL CALICHE
		NON-EXEMPT E&P Waste/S	Service Identification and Amount	The Land Land Land	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity adn Reactivity. Non-Exempt Other *please select from Non-Exempt Waste List on back					
DISPOSAL QUANTITY		B - BARRELS	L-LIQUID	O (Y-YARDS)	E - EACH
I hereby certify that the abo packaged, and is in proper of	ve listed material(s), is (are) not l	azardous waste as defined by 40 CFR	Part 261 or any applicable state	law. That each waste has been pro	operly described, classified and
packaged, and is in proper condition for transportation according to applicable regulation. Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)					
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following decumentation demonstrating the					
waste as non-hazardous is attached. (Check the appropriate items as provided) MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below)					
EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)					
(PRIN	T) AUTHORIZED AGENTS SIGNATURE		DATE	SIGNATURE	
Transporter's	To Ma	TRANS	PORTER	· /.	
Name Address	en lex mex		Driver's Name Print Name	ornelia	
Phone No Transporter Ticket #			Phone No. Truck No.	2	
THE RESERVE OF THE PARTY OF THE	ve named material(s) was/were p	icked up at the Generator's site listed		dent to the disposal facility listed	below.
SHIPMENT DATE	DRI	/ER'S SIGNATURE	DELIVERY DATE	DRIVER'S	SIGNATURE
Table Control	TIME STAMP	DISPOSA	L FACILITY	RECEIVING	AREA 79
IN: Site Name/	OUT:			Name/No	
Permit No. Ha	Ifway Facility / NM1-00 I Hobbs Hwy US 62 / 180 Mile N		Phone No. 575	392-6368	
	READINGS TAKEN? (Circle O		If YES, was reading > 50	nicro roentgents? (Circle One)	YES NO
	PAINT FILTER TEST? (Circle O	ne) YES NO			
	Feet	TANK B	OTTOMS		DCG/M/W/
st Guage 2nd Guage			BS&W/BBLS	Received ree Water	B5&W (%)
Received				Received /	
hereby-certify that the above	re load material has been (circle o	one): ACCEPTED	DENIED If denie	d, why?	
	(PRINT)	DATE	TITLE	SIGN	NERATOR 308.8360-5240LE rev 08/23
c-138 onc@northstarforms.com (87	7)499-0492 White - R360 OR	GINAL Yellow- TRANSPORTER C	OPY Pink- GENERATOR SITE	COPY Gold- RETURN TO GEI	NERATOR 308.R360-5240LE rev 08/23

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

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

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

QUESTIONS

Action 422854

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	422854
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2411739118
Incident Name	NAPP2411739118 JRU DI 1A BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2123053722] JAMES RANCH UNIT DI1A

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 fo	or 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.

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

[C-141] Deferral Request C-141 (C-141-v-Deferral)

Action 422854

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	422854
, and the second se	

QUESTIONS (continued)

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 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 The impacted area has been secured to protect human health and the True environment Released materials have been contained via the use of berms or dikes, absorbent True pads, or other containment devices All free liquids and recoverable materials have been removed and managed True appropriately 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 hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Name: Colton Brown Title: Environmental Advisor I hereby agree and sign off to the above statement

Email: colton.s.brown@exxonmobil.com

Date: 01/21/2025

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

Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 422854

QUESTIONS (continued)

Operator:		OGRID:
	XTO ENERGY, INC	5380
	6401 Holiday Hill Road	Action Number:
	Midland, TX 79707	422854
		Action Type:
		[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
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 ar	nd 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 the	nat 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 de	monstrating the lateral and vertical extents of soil contamination	n 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	al extents of contamination been fully delineated	Yes
Was this release entirely o	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in mi	illigrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI 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
	NMAC unless the site characterization report includes completed telephone for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date wi	Il the remediation commence	10/01/2024
On what date will (or did) the	ne 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 surfa	ace area (in square feet) that will be reclaimed	0
What is the estimated volu	me (in cubic yards) that will be reclaimed	0
What is the estimated surfa	ace area (in square feet) that will be remediated	1291
What is the estimated volu	me (in cubic yards) that will be remediated	95
These estimated dates and measure	rements are recognized to be the best guess or calculation at th	e 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.

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

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QUESTIONS, Page 4

Action 422854

QUESTIONS (co	ontinued
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Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	422854
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com
Date: 01/21/2025

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.

Operator:

General Information Phone: (505) 629-6116

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XTO ENERGY, INC

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 422854

QUESTIONS (continued)

OGRID:

5380

6401 Holiday Hill Road	Action Number:
Midland, TX 79707	422854
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each	of the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Production equipment including horizontal separators and process piping. Removal of equipment to safely access the deferral area would require the battery to be shut down
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1760
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	320
	ediately under or around production equipment such as production tanks, wellheads and pipelines where on may be deferred with division written approval until the equipment is removed during other operations, or when
Enter the facility ID (f#) on which this deferral should be granted	JAMES RANCH UNIT DI1A [fAPP2123053722]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for relethe OCD does not relieve the operator of liability should their operations have failed to	w knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by a adequately investigate and remediate contamination that pose a threat to groundwater, surface ort does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/21/2025

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QUESTIONS, Page 6

Action 422854

QUESTIONS (continued)

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Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	422854
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	407027
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/06/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	2000

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 422854

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	422854
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created	By Condition State of the Condition State of	Condition Date
rhamle	XTO's deferral requests final remediation for (Incident Number NAPP2411739118) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the shaded area on figure 4 that is next to active production equipment and process piping, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	4/15/2025