Incident Number: nAPP2418443905

Release Assessment and Closure

DHI Landes to SRO Line

Section 32, Township 25 South, Range 28 East

Latitude and Longitude: 32.08538, -104.11729

County: Eddy

Vertex File Number: 24E-03618

Prepared for:

Dalbo Holdings Inc

Prepared by:

Vertex Resource Services Inc.

Date:

March 2025

Release Assessment and Closure
Landes to SRO Line

Section 32, Township 25 South, Range 28 East
Latitude and Longitude: 32.08538, -104,11729
County: Eddy

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3/11/2025
Date

Table of Contents

1.0 Introduction 1
2.0 Incident Description 1
3.0 Site Characteristics 1
4.0 Closure Criteria Determination 2
5.0 Remedial Actions Taken 4
6.0 Closure Request 5
7.0 Land Reclamation 5
7.1 End Land Use and Capability 5
7.2 Restoration of Drainage 5
7.3 Soil Replacement 6
7.4 Erosion Control 6
7.5 Re-vegetation 6
7.5.1 Seeding 6
7.6 Weed Management 6
8.0 Monitoring Program 6
8.1 Final Assessment and Closure Request 7
9.0 References 8
10.0 Limitations 9

In-text Tables

Table 1. Closure Criteria Determination
Table 2. Closure Criteria for Soils Impacted by a Release

List of Figures

Figure 1. Characterization Sampling Site Schematic
Figure 2. Confirmatory Sampling Site Schematic

List of Tables

Table 3. Initial Characterization Sample Field Screen and Laboratory Results – Depth to Groundwater <50 feet bgs
Table 4. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater – Depth to Groundwater <50 feet bgs

List of Appendices

Appendix A. Closure Criteria Research Documentation
Appendix B. Daily Field and Sampling Report(s)
Appendix C. Laboratory Data Report(s) and Chain of Custody Form(s)

1.0 Introduction

Dalbo Holdings Inc (DHI) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a produced water release that occurred on July 01, 2024, at DHI Landes to SRO Line (hereafter referred to as the "site"). DHI submitted an initial C-141 Release Notification to New Mexico Oil Conservation Division (NMOCD) District on July 16, 2024. Incident ID number nAPP2418443905 was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the New Mexico Administrative Code (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations were followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of the release site will be completed following remediation activities as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on July 1, 2024, due to equipment failure in a pipeline. The incident was reported on July 2, 2024, and involved the release of approximately 100 barrels (bbl.) of produced water off pad with no free fluid removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 15.6 miles southwest of Malaga, New Mexico (Google INC., 2024). The legal location for the site is Section 32, Township 25 South and Range 28 East in Eddy County, New Mexico. The release area is located on New Mexico State Trust Land. An aerial photograph and site schematic are presented in Figure 1.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2024) indicates the site's surface geology primarily comprises QA – Alluvium and evaporite deposits (Holocene to upper Pleistocene). The soil texture on the site is Reeves-Reagan Loams. Additional soil characteristics include a drainage class of well drained to somewhat excessively drained with a runoff class of high. The karst geology potential for the site is high (United States Department of the Interior, Bureau of Land Management, 2018).

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas transit. The following sections specifically describe the release area in proximity to the pipeline right-of-way in the pasture (Figure 1).

The surrounding landscape is associated with elevations ranging between 1,100 and 4,400 feet. The climate is semiarid with average annual precipitation ranging between 7 and 25 inches. Using information from the United States Department of Agriculture, the dominant vegetation was not specified. Grasses with shrubs and half-shrubs such as black grama, blue grama, and tobosa dominate the historical plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Limited to no vegetation is allowed to grow on the compacted right-of-way and access road.

4.0 Closure Criteria Determination

The nearest active well to the site is a New Mexico Office of the State Engineer monitoring well located approximately 0.88 miles east of the location (United States Geological Survey, 2024). Information pertaining to the depth to ground water determination is included in Appendix A.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is a Freshwater Emergent Wetland (National Wetlands Inventory) located approximately 0.86 miles northeast of the site (United States Fish and Wildlife Service, 2024).

At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Table 1. Closure Criteria Determination			
Site Name: DHI Landes to SRO Line			
Spill Coordinates: 32.08538, -104.11729		**X: UTM 583300.77**	**Y: UTM 3550240.35**
Site Specific Conditions		**Value**	**Unit**
1	Depth to Groundwater (nearest reference)	**<50**	feet
	Distance between release and nearest DTGW reference	**4,629**	feet
		0.88	miles
	Date of nearest DTGW reference measurement	**August 31, 2024**	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	4,561	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	37,653	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	44,560	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, **or**	3,494	feet
	ii) Within 1000 feet of any fresh water well or spring	3,494	feet

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils Impacted by a Release DTGW <50 feet bgs & High Karst

Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
< 50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

DTGW – Depth to groundwater

5.0 Remedial Actions Taken

An initial site inspection of the release area was completed on July 23, 2024. Characterization of the release area was started August 9, 2024, and completed on August 28, 2024, which identified the area of the release specified in the initial C-141 Reports, estimated the approximate volume of the release and white lined the area required for the One Call request. The impacted area for the Incident was determined to be approximately 43,200 square feet in size or 1,600 cubic yards. Samples points BH24-01 through BH24-37 were established to characterize the release (Figure 1). The Daily Field Reports (DFRs) associated with the site inspection are included in Appendix B. Characterization field screening and laboratory results are summarized in Table 3.

Remediation efforts began on December 13, 2024, and were paused for the holidays from December 23, 2024, and return on January 6, 2025. During the excavation of the release on January 6, 2025, Boone Archology identified suspected signs of a culturally sensitive area on the outside edges of the area of interest. To ensure no disturbance of culturally sensitive areas, Boone consultants cordoned off the area and stated to do not trespass into the culturally sensitive area. Boone remained on-site to monitor the no trespass into the suspected culturally sensitive area. Field sampling of the area showed no signs of contamination and were confirmed by wall samples taken and sent to Envirotech Inc in Farmington, New Mexico. Remediation efforts were finalized on January 7, 2025. Vertex personnel supervised the excavation of 4,142 square feet or 622 cubic yards of impacted soils. Field screening was completed on a total of 59 samples and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Quantabs (chlorides). Field screening results were used to identify areas requiring further remediation. Soil was removed to a minimum of 1 feet bgs and a maximum depth of 6 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at Lealand an approved waste management facility. Field screening results and DFRs documenting various phases of the remediation are presented in Appendix B.

6	Within incorporated municipal boundaries or within a defined municipal freshwater field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	2,038	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	**121,720**	feet
9	Within an unstable area (Karst Map)	**High**	Critical High Medium Low
	Distance between release and nearest unstable area	**0**	feet
10	Within a 100-year Floodplain	100-500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	**3,641**	feet
11	Soil Type	Reaves-Reagan Loams	
12	Ecological Classification	Loamy	
13	Geology	Upper Permian Rustler Formation	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

Notification that confirmatory samples were being collected was provided to the NMOCD for sampling on December 23, 2024 and January 9, 2025. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 59 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Envirotech under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 3, and the laboratory data reports are included in Appendix C. All confirmatory samples collected and analyzed were below closure criteria for the site.

6.0 Closure Request

Vertex recommends no additional remediation action to address the impacted area at the site. Laboratory analyses of confirmation samples collected show final confirmatory values below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs and in high karst potential. There are no anticipated risks to human, ecological, or hydrological receptors at the site.

The excavation was backfilled with uncontaminated earthen material sourced locally and placed to meet the site's existing grade to prevent water ponding and erosion. Samples were collected from the topsoil material prior to backfill activities. Analytical data pertaining to the backfill samples is included in Table 4. The top layer of the backfill was seeded on January 15, 2025, with the State Land Office (SLO) recommended seed mixture for loamy soils.

Vertex requests that this open incident be approved for reclamation closure as all requirements set forth in 19.15.29 NMAC have been met. DHI certifies that all information and appendices in this report are correct and that they have complied with all applicable closure requirements and conditions. The site will be monitored bi-annually until it reaches at least a 70% revegetation. A Revegetation Report will be submitted to NMOCD and SLO when the site has been successfully revegetated.

7.0 Land Reclamation

The land reclamation for the site (surface reclamation) is detailed below. This section outlines the principles that were used during the surface reclamation phase for the site. The DFR and site photographs obtained during reclamation procedures are included in Appendix B.

7.1 End Land Use and Capability

The land use surrounding the site is defined as natural; therefore, the end land use would be natural land. A natural area is described as: away from human habitation and activities, where the primary concern is the protection of ecological receptors. The site was reclaimed so that the capability of the land matches that of the areas immediately surrounding the site, which consists of rangeland.

7.2 Restoration of Drainage

Currently, the site consists of a pasture area that slopes southward along the pipeline right-of-way. The site

was contoured to match surrounding topography as near as practicable to restore natural drainage, which was generally in a west-to-east direction. Any compaction on-site was addressed by de-compaction to an approximate depth of 6 inches to avoid caliche material from resurfacing. The decompaction was completed in the direction in which the area is sloped to ensure that future rainfall will be able to drain away from the site. All de-compaction activities were conducted post-backfill procedures and pre-seeding to maximize seed to soil contact and promote vegetation establishment.

7.3 Soil Replacement

Surface reclamation included determination of background topsoil depth as site conditions are required to meet pre-existing conditions. Reclamation of the location was completed after backfilling operations. Clean, locally sourced topsoil and caliche was imported to the site to backfill the excavation. The pasture areas were fenced with a 4-strand barbed wire fence.

7.4 Erosion Control

There are currently no erosion concerns on-site, and the use of erosion control devices at this location is not anticipated. However, erosion control devices will be installed at the discretion of the on-site environmental inspector.

7.5 Re-vegetation

7.5.1 Seeding

A seed mix suitable for the site and surrounding area was used and applied at appropriate rates. Seed establishment and re-vegetation will be monitored, bi-annually, to determine success. A SLO loamy seed mix consisting of Sideoats grama – 2.0 lb/acre, Blue grama – 2lb/acre, Sand dropseed – 1lb/acre, Galleta grass – 2.5lb/acre, Little bluestem – 2.5lb/acre was obtained for the site and administered by Vertex personnel. Seeding was completed using a drone with rotating discs and broadcasted on all areas under reclamation. Photo documentation of the excavation area after backfilling and seeding is included in Appendix B.

7.6 Weed Management

The site will be monitored for vegetative growth throughout the year. Should noxious vegetation be identified on-site, a control program will be implemented and managed as required.

Weed management programs will identify weed species of concern and utilize effective control methods. These methods include but are not limited to: chemical (herbicide) control, mechanical (mowing) control or biological control as approved by governing regulatory agencies.

8.0 Monitoring Program

Bi-annual inspections will be conducted, during the growing season, to monitor site progression and assess the need for additional best management practices (BMPs). Inspections will include photographs of the site and BMPs implemented. Revegetation success will be considered complete when the site reaches 70% coverage.

8.1 Final Assessment and Closure Request

During the bi-annual inspections, if site conditions are at or nearing background conditions, a final re-vegetation report will be completed. The report will provide a summary of the vegetation establishment, a summary and interpretation of monitoring data collected, interpretation of historical monitoring data, and suggested corrective actions if applicable.

Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575.246.0032 or chensley@vertexresource.com.

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10.0 Limitations

This report has been prepared for the sole benefit of Dalbo Holdings Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and Dalbo Holdings Inc. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. The conclusions and recommendations presented in this report should not be considered legal advice.

FIGURES

Borehole (Prefixed by "BH24-")
Release Point
Area of Release (~5999 sq. ft. | 2308 ft.)
Right of Entry

VERTEX

0 150 300 ft
NAD 1983 UTM Zone 13N
Date: Sep 03/24

Map Center:
Lat: 32.086652,
Long:-104.116783

N

Characterization Sampling Site Schematic
DHI Landes to SRO Line

FIGURE: 1

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

Note: Georeferenced image from Esri, 2023. Site features from GPS by Vertex Professionals Services Ltd., 2024.

VERSATILITY. EXPERTISE.

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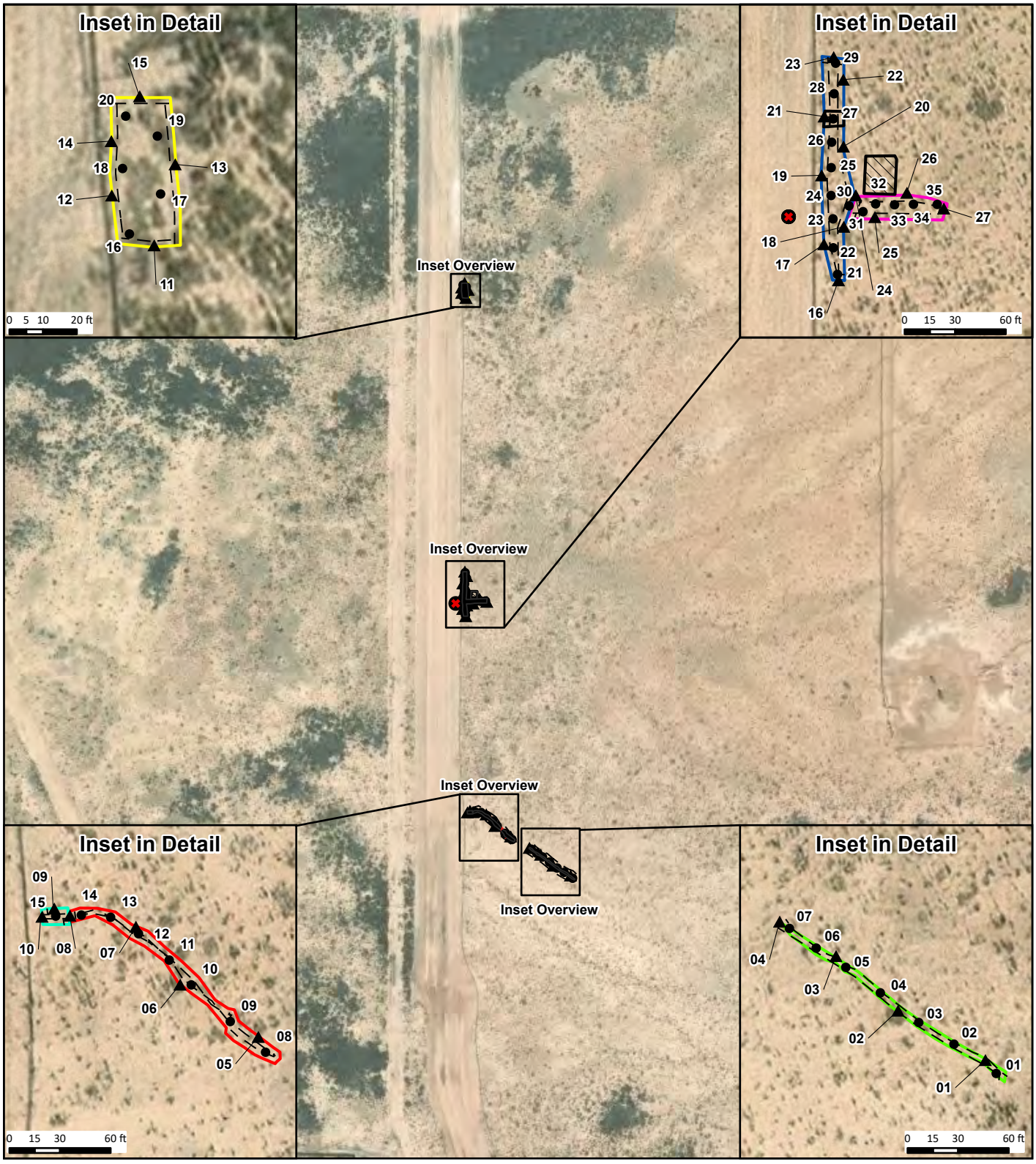

- Release Point
- Base Sample (Prefixed by "BES24-")
- Wall Sample (Prefixed by "WES24-")
- Excavation to 1' bgs (~1,265 sq.ft. | 330 ft.)
- Excavation to 1' bgs (~594 sq.ft. | 331 ft.)
- Excavation to 3' bgs (~151 sq.ft. | 51 ft.)
- Excavation to 4' bgs (~739 sq.ft. | 135 ft.)
- Excavation to 5' bgs (~1,720 sq.ft. | 287 ft.)
- Excavation to 5' bgs (~835 sq.ft. | 124 ft.)
- Excavation to 6' bgs (~103 sq.ft. | 41 ft.)
- Suspected Signs of a Culturally Sensitive Area

VERTEX

0 75 150 300 ft

NAD 1983 UTM Zone 13N
Date: Mar 10/25

Map Center:
Lat: 32.08577°N,
Long:104.117061°W

N

Confirmation Map
DHI Landes to SRO Line

FIGURE: 2

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

Note: Georeferenced image from Esri, 2023. Site features from GPS, Vertex Professional Services Ltd., 2025.

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TABLES

Client Name: Dalbo Holding, Inc
Site Name: DHI Landes to SRO
NMOCD Tracking #: nAPP2418443905
Project #: 24E-03618
Lab Report(sX): J7015, J7066

Table 2. Initial Characterization/Confirmatory Sample Field Screen and Laboratory Results

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Depth to Groundwater 50 feet or less bgs							
BH24-1	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	67.5
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	54.4
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	54
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	91.9
BH24-2	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	5.82
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	69.8
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	30.4
BH24-3	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	23
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	35.8
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	8.55
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	67.1
BH24-4	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	17.5
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	66.8
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	46.3
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	66.7
BH24-5	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	36.5
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	31.7
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	67.9
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	28.4
BH24-6	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	50.9
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	35.3
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	19.3
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	45.4
BH24-7	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	621
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	842
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	1050
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	1050
BH24-8	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	32.9
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	118
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	322
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	30.8
BH24-9	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	28.9
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	82.8
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	47.2
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	73.5
BH24-10	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	81.4
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	140
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	141
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	73.7

VERTEX

BH24-11	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	66.1
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	131
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	118
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	1010
BH24-12	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	82.2
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	44.6
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	191
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	210
BH24-13	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	82.7
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	178
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	216
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	242
BH24-14	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	88.3
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	28.8
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	71.4
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	66.9
BH24-15	1	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	84.4
	2	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	31.9
	3	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	33.9
	4	August 9, 2024	ND	ND	ND	ND	ND	ND	ND	16.3
BH24-16	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	25.8
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	10.8
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	27.7
BH24-17	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	8.64
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	16.8
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-18	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	14.5
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	11.8
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-19	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	4900
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	721
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	1260
BH24-20	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	5750
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	1140
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	9.85
BH24-21	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	5340
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	1560
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-22	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	2800
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	72.7
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	5.15
BH24-23	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	3710
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	229
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	7.55
BH24-24	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	7.82
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-25	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	26.9
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	17.7

BH24-26	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	5.81
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	17
BH24-27	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	5.54
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	16.1
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	45.8
BH24-28	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	13.8
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	7.59
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	9.2
BH24-29	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	15.2
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	10
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	10
BH24-30	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	16.2
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	16.1
BH24-31	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	5.15
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	9.17
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-32	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	16.3
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	25.3
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	7.8
BH24-33	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	8.7
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	5.49
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	7.7
BH24-34	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	7.06
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-35	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	191
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	594
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	8.78
BH24-36	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	215
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	39
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	6.48
BH24-37	1	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	4970
	3	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	4400
	4	August 28, 2024	ND	ND	ND	ND	ND	ND	ND	9.06

"ND" Not Detected at the Reporting Limit
"-" indicates not analyzed/assessed
Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)

Client Name: Dalbo Holdings Inc
Site Name: Landes to SRO Line
NMOCD Tracking #: nAPP2418443905
Project #: 24E-03618
Lab Report(sX): E412196, E412197, E501084, E501158

Table 4. Confirmatory Sample Laboratory Results

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Depth to Groundwater <50 ft BGS							
BES24-01	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	100
BES24-02	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	86.5
BES24-03	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BES24-04	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	82.3
BES24-05	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BES24-06	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BES24-07	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	139
BES24-08	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BES24-09	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	48.6
BES24-10	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BES24-11	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	113
BES24-12	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BES24-13	1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BES24-14	3.5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BES24-15	5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BES24-16	5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	99.1
BES24-17	5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	98.6
BES24-18	5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	108
BES24-19	5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BES24-20	5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BES24-21	5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BES24-22	5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	201
BES24-23	5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BES24-24	5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BES24-25	5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BES24-26	5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	99.4
BES24-27	5	January 9, 2025	ND	ND	ND	222	103	222	325	370
	6	January 23, 2025	ND	ND	ND	ND	61.4	ND	61.4	ND
BES24-28	5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	46
BES24-29	5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	113
BES24-30	4	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BES24-31	4	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BES24-32	4	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BES24-33	4	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BES24-34	4	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BES24-35	4	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WES24-01	0-1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	383
WES24-02	0-1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WES24-03	0-1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND

VERTEX

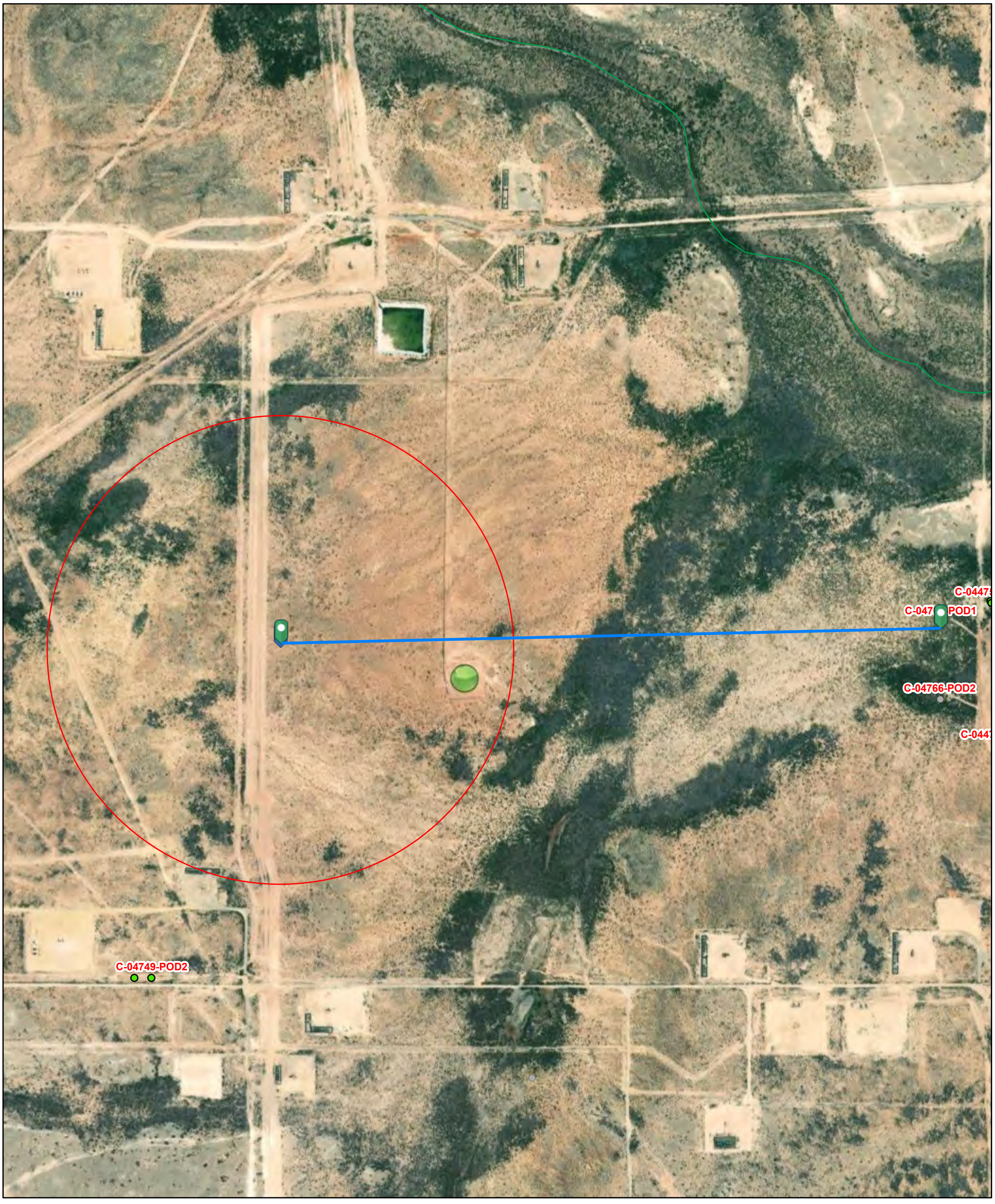
WES24-04	0-1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WES24-05	0-1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WES24-06	0-1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	128
WES24-07	0-1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	82
WES24-08	0-1	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	195
WES24-09	0-3.5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WES24-10	0-3.5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	93
WES24-11	0-5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WES24-12	0-5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WES24-13	0-5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	79
WES24-14	0-5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WES24-15	0-5	December 23, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WES25-16	0-5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	65
WES24-17	0-5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WES24-18	0-5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	110
WES24-19	0-5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WES24-20	0-5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WES24-21	0-5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	118
WES24-22	0-5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WES24-23	0-5	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	406
WES24-24	0-4	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WES24-25	0-4	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	97
WES24-26	0-4	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WES24-27	0-4	January 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit
"-" indicates not analyzed/assessed
Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)

APPENDIX A – Closure Criteria Research Documentation

Closure Criteria Determination			
Site Name: DHI Landes to SRO Line			
Spill Coordinates: 32.08538,-104.11729		X: UTM 583300.77	Y: UTM 3550240.35
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	**<50**	feet
	Distance between release and nearest DTGW reference	**4,629**	feet
		0.88	miles
	Date of nearest DTGW reference measurement	**August 31, 2024**	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	4,561	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	37,653	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	44,560	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, **or**	3,494	feet
	ii) Within 1000 feet of any fresh water well or spring	3,494	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	2,038	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	**121,720**	feet
9	Within an unstable area (Karst Map)	**High**	Critical High Medium Low
	Distance between release and nearest unstable area	**0**	feet
10	Within a 100-year Floodplain	100-500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	**3,641**	feet
11	Soil Type	Reaves-Reagan Loams	
12	Ecological Classification	Loamy	
13	Geology	Upper Permain Rustler Formation	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

OSE POD Location Map



9/28/2024, 11:49:08 AM

Override 1

GIS WATERS PODs

Active

Pending

OSE District Boundary

NHD Flowlines

Stream River

1:9,028

0 0.07 0.15 0.3 mi

0 0.13 0.25 0.5 km

Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Online web user

This is an unofficial map from the OSE's online application.

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)			(quarters are smallest to largest)						(NAD83 UTM in meters)				(In fee
POD Number	**Code**	**Sub basin**	**County**	**Q64**	**Q16**	**Q4**	**Sec**	**Tws**	**Range**	**X**	**Y**	**Map**	**Distance**	**Well Depth**
C 02478		CUB	ED		NE	NW	05	26S	28E	583848.0	3549325.0 *		1066	100
C 04766 POD1		CUB	ED	NE	NE	SE	32	25S	28E	584716.5	3550306.9		1417	37
C 03836 POD1		C	ED	NE	NE	SE	29	25S	28E	584682.5	3551934.1		2185	300
C 01278		C	ED		SE	SW	28	25S	28E	585470.0	3551338.0 *		2431	205
C 03938 POD1		CUB	ED	NE	NE	NE	25	25S	27E	581481.8	3552616.2		2992	21
C 01573 POD1		C	ED	SW	NW	SE	20	25S	28E	584143.9	3553361.5		3233	176
C 02477		CUB	ED		NW	NW	03	26S	28E	586687.0	3549347.0 *		3502	150
C 04371 POD1		CUB	ED	SW	SW	SE	26	25S	27E	579368.8	3551272.6		4065	100
C 03861 POD1		C	ED	SE	NE	SW	18	25S	28E	582265.7	3554864.3		4738	91
C 02474		CUB	ED		SE	SW	02	26S	27E	578964.0	3548029.0 *		4868	100
														Averag
														Minim
														Maxim

Record Count: 10

UTM Filters (in meters):
Easting: 583300.77
Northing: 3550240.35
Radius: 5000.0

*** UTM location was derived from PLSS - see Help**

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.

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Water Right Summary

get image list

WR File Number:	C 04766	**Subbasin:**	CUB	**Cross Reference:**
Primary Purpose:	MON MONITORING WELL			
Primary Status:	PMT Permit			
Total Acres:		**Subfile:**		**Header:**
Total Diversion:	0.000	**Cause/Case:**		
Owner:	CONOCO PHILLIPS			
Contact:	IKE TAVAREZ			

Documents on File

(acre-fee

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion
get images	750172	EXPL	2023-08-18	PMT	LOG	C-4766 POD1-3	T	0.000	0.000

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 04766 POD1	NA	Shallow	NE	NE	SE	32	25S	28E	584716.5	3550306.9		MW-4
C 04766 POD2	NA		NE	NE	SE	32	25S	28E	584716.1	3550140.9		MW-5
C 04766 POD3	NA		SW	NW	SW	33	25S	28E	585023.5	3550117.6		MW-6

*** UTM location was derived from PLSS - see Help**

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0.000	0.000		MON		GW	

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U.S. Fish and Wildlife Service
National Wetlands Inventory

Landes to SRO Line Watercourse 4,561ft

September 28, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

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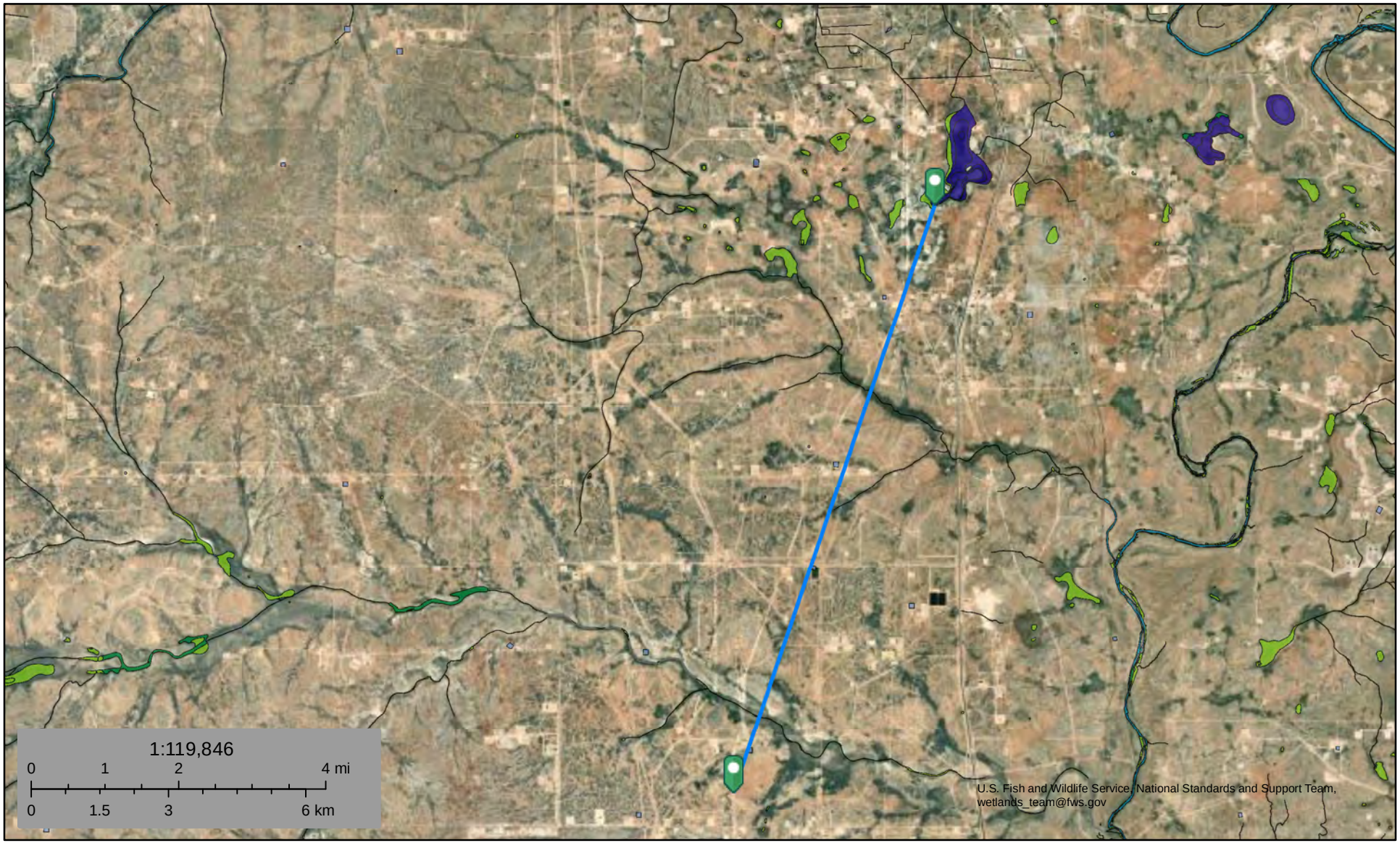
U.S. Fish and Wildlife Service
National Wetlands Inventory

Landes to SRO Line Lake 37,653ft



September 28, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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National Wetlands Inventory (NWI)
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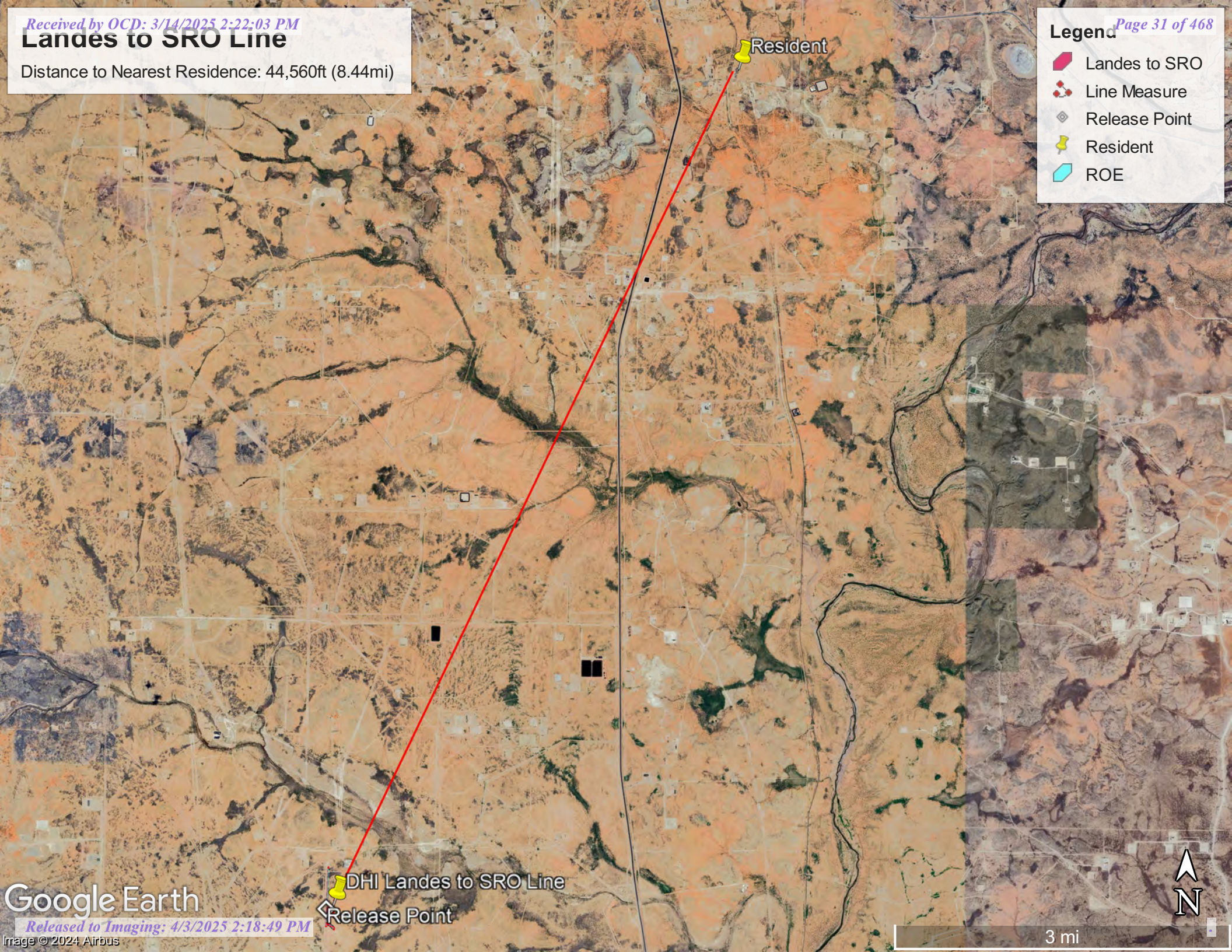
Landes to SRO Line

Distance to Nearest Residence: 44,560ft (8.44mi)



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Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

(R=POD has been replaced and no longer serves this file, C=the file is closed)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source
C 04749	CUB	MON	0.000	CONOCO PHILLIPS TETRA TECH	ED	C 04749 POD2	NA			
					ED	C 04749 POD1	NA			
C 02478	CUB	PLS	3.000	MARTHA SKEEN	ED	C 02478				
C 04766	CUB	MON	0.000	CONOCO PHILLIPS	ED	C 04766 POD1	NA			Shallow
					ED	C 04766 POD2	NA			
C 04475	CUB	MON	0.000	COG OPERATING LLC	ED	C 04475 POD1	NA			
					ED	C 04475 POD2	NA			
					ED	C 04475 POD3	NA			
					ED	C 04475 POD4	NA			

Record Count: 9

Filters Applied:

UTM Filters (in meters):
Easting: 583300.77
Northing: 3550240.35
Radius: 1610

Sorted By: Distance

*** UTM location was derived from PLSS - see Help**

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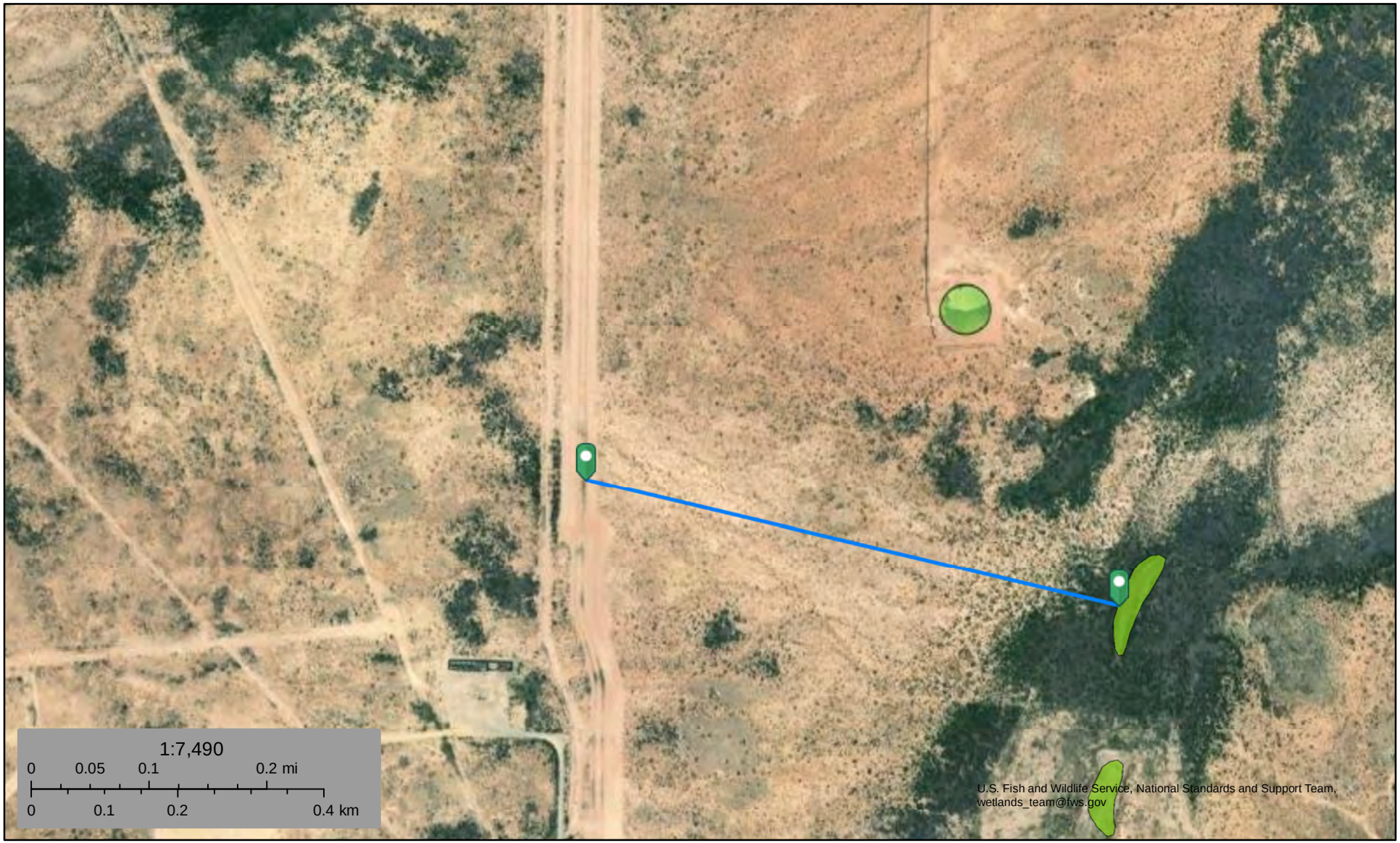
U.S. Fish and Wildlife Service
National Wetlands Inventory

Landes to SRO Line Wetland 2,038ft



September 28, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
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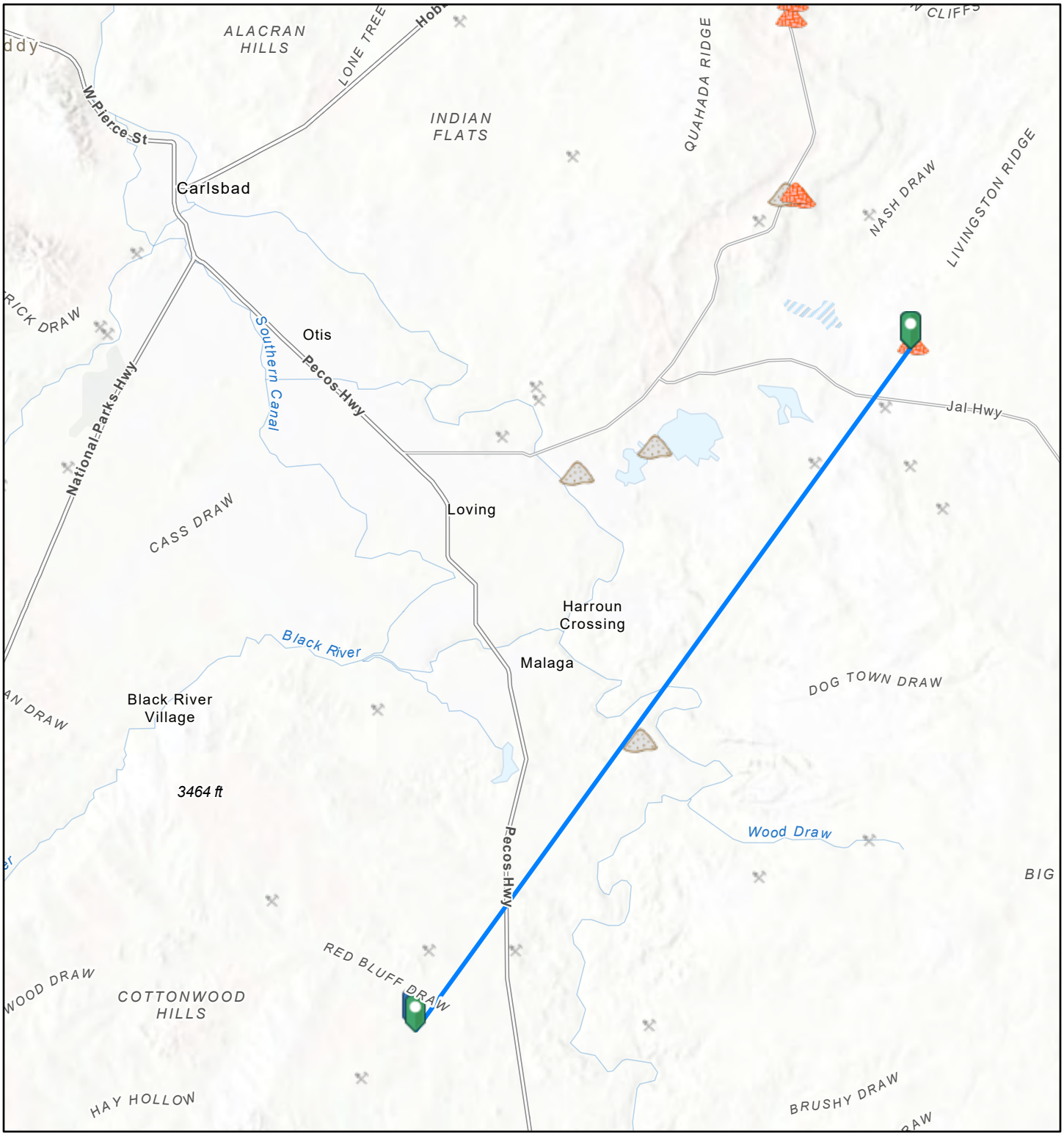
Landes to SRO Line Mine 121,720ft



9/28/2024, 12:33:34 PM

1:288,895

0 2 4 8 mi

0 3.25 6.5 13 km

Registered Mines

- Aggregate, Stone etc.
- Aggregate, Stone etc.
- Aggregate, Stone etc.
- Potash
- Salt

Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS

EMNRD MMD GIS Coordinator

New Mexico Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

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Landes to SRO Line

Distance to FEMA Flood Zone A: 3,641ft (0.69mi)

Legend

- DHI Landes to SRO Line
- FEMA Flood Zone A
- Landen to SRO
- Line Measure
- Release Point
- ROE

DHI Landes to SRO Line

Release Point

Google Earth

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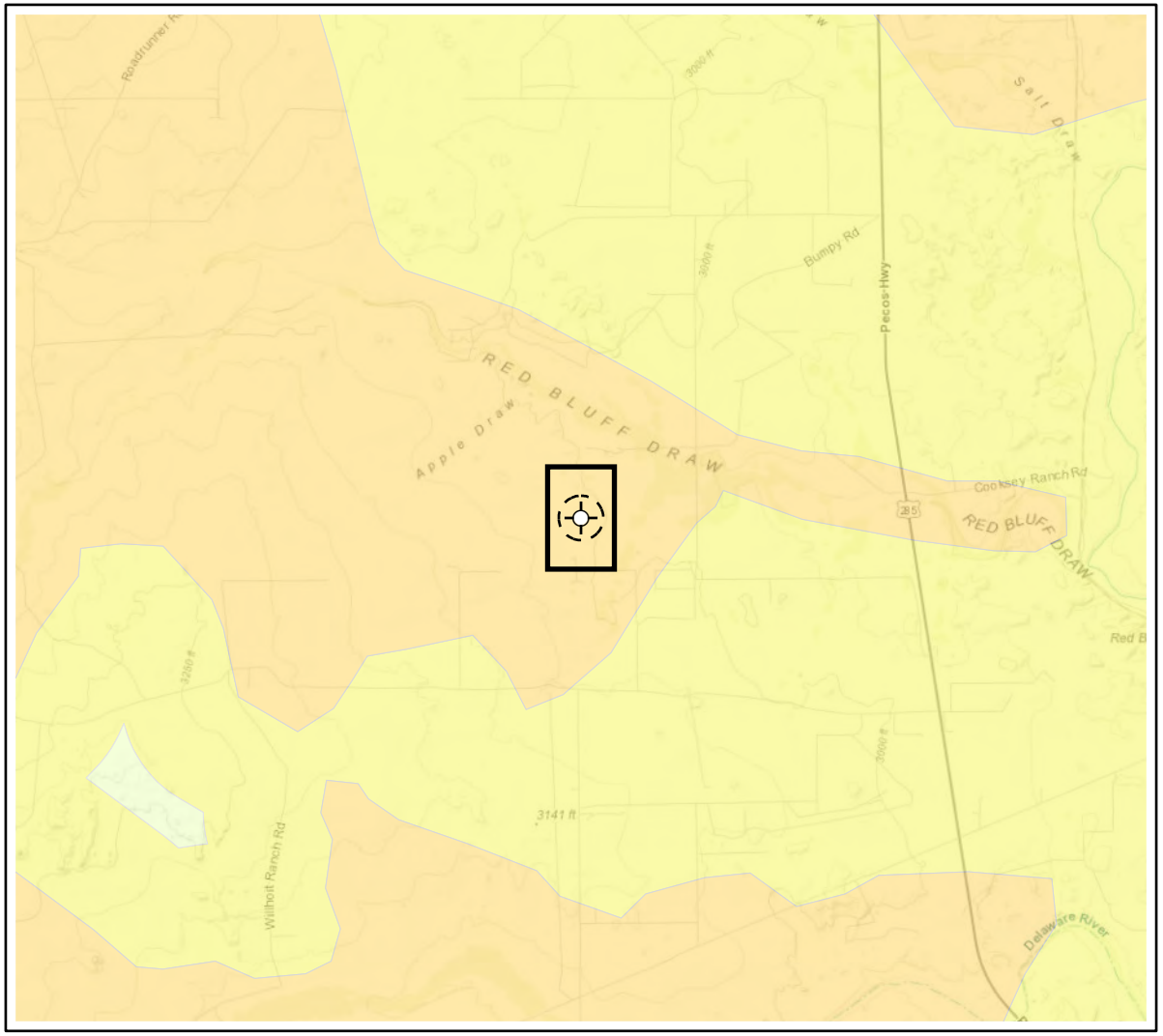
Image © 2024 Airbus

N

1000 ft



Overview Map
0 0.5 1 mi

Detail Map
0 150 300 600 ft

Karst Potential

- Critical
- High
- Medium
- Low

- Site Location
- Site Buffer (1,000 ft.)

VERTEX

Map Center:
Lat/Long
32.08538°,-104.11729°

NAD 1983 UTM Zone 13N
Date: Oct 01/24

N

Karst Potential Map
Landes to SRO Line

Figure:
X

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

Note: Inset Map, Esri 2023; Overview Map: Esri World Topographic. Karst potential data sources from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management, (2018). Karst Potential.

VERSATILITY. EXPERTISE.

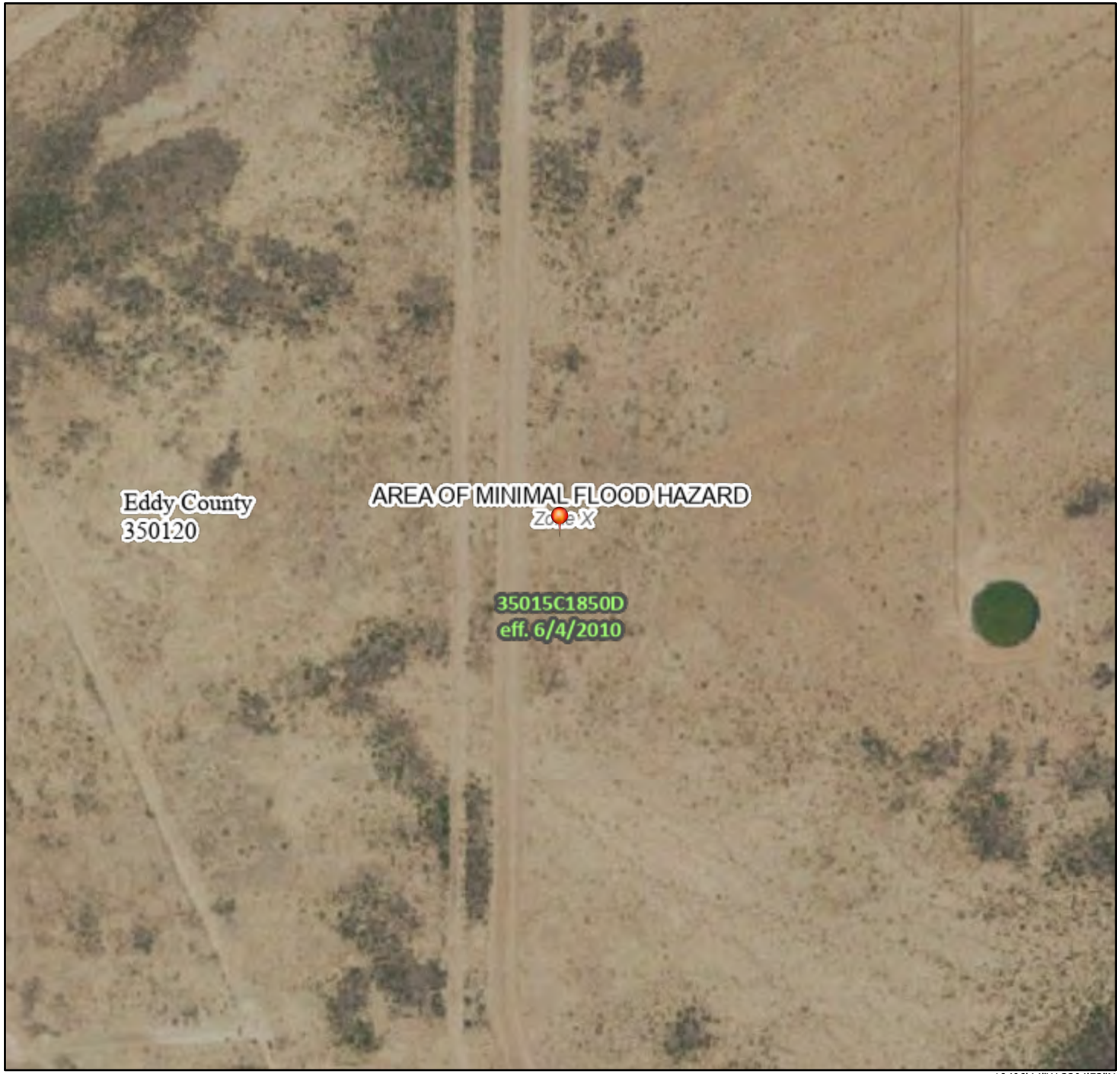
Document Path: G:\1-Projects_US PROJECTS\BHS-DHI\24E-03618\Project\24E-03618.aprx

Received by OCD: 3/14/2025 2:22:03 PM

National Flood Hazard Layer FIRMette

FEMA

104°7'21"W 32°5'23"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°6'44"W 32°4'52"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/28/2024 at 2:49 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Released to Imaging: 4/3/2025 2:18:49 PM

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico

September 28, 2024

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

Preface.....2
How Soil Surveys Are Made.....5
Soil Map.....8
Soil Map.....9
Legend.....10
Map Unit Legend.....11
Map Unit Descriptions.....11
Eddy Area, New Mexico.....13
RM—Reeves-Reagan loams, 0 to 3 percent slopes.....13
References.....15

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

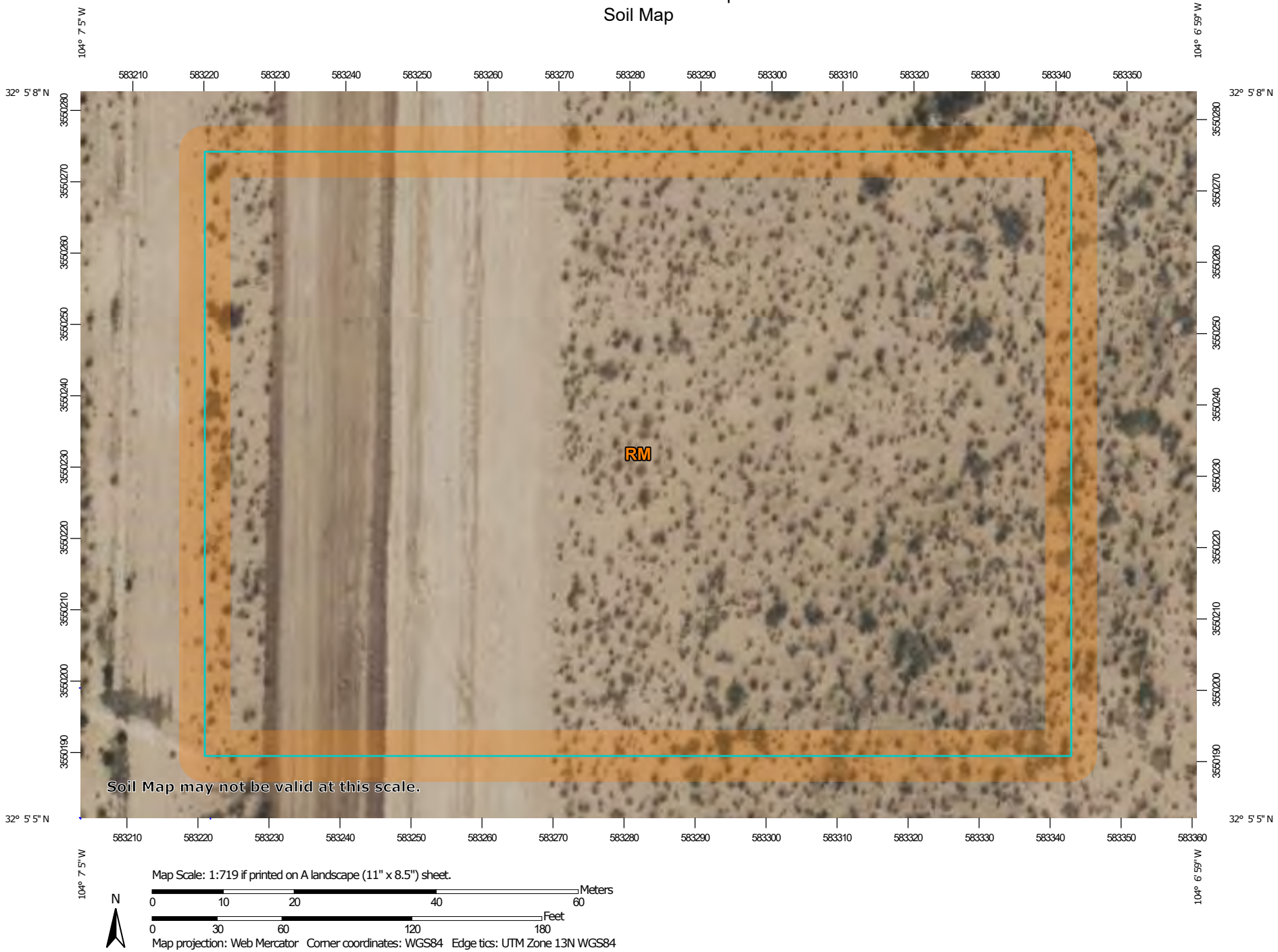
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RM	Reeves-Reagan loams, 0 to 3 percent slopes	2.6	100.0%
Totals for Area of Interest		**2.6**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eddy Area, New Mexico

RM—Reeves-Reagan loams, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5g
Elevation: 1,100 to 4,400 feet
Mean annual precipitation: 7 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 50 percent
Reagan and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 30 inches: loam
H3 - 30 to 82 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 15.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Cottonwood

Percent of map unit: 5 percent
Ecological site: R070BB006NM - Gyp Upland
Hydric soil rating: No

Upton

Percent of map unit: 5 percent
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Gypsum land

Percent of map unit: 5 percent
Hydric soil rating: No

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USDA Natural Resources Conservation Service

Ecological site R070BC007NM
Loamy

Accessed: 09/28/2024

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on uplands landforms, mainly on hill slopes, ridges, plains, terraces and some fan remnants. Slopes range from 1 to 5 percent and average about 3 percent. Average annual precipitation is about 8 to 14 inches. Elevations range from 2,842 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Plain (2) Terrace (3) Fan piedmont
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–5,000 ft
Slope	0–5%
Aspect	E, S, W

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost is in late March or early April, and the first killing frost is in late October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest in January through June rapidly drying out the soil during a critical time for cool season plant growth.

Climate data was obtained from http://www.wrcc.sage.dri.edu/summary/climsmnm.html web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced by wetland or streams.

Soil features

The soils of this site are deep to moderately deep. The moderately deep soils have either a petrocalcic, petrogypsic or gypsum horizon between 30 and 40 inches.

Surface textures are loam, silt loam, very fine sandy loam, or clay loam. Substratum textures are loam, silty clay loam, clay loam, or silt loams. Subsoil textures are silt loam , clay loam silty clay loam, gravelly loam, gravelly clay loam or very gravelly loam. Permeability is moderate to slow and the available water holding capacity is high to moderate. The Atoka, Reeves, Russler, Milner soils may have highr amounts of CaC03, ranging as high as 40 percent in the subsoil. Rock fragments range fro 5 to 50 percent in the subsoil. Reeves, Rusler, Milner, Holloman soils will have 40 to 80 percent gypsum in the underlying material.

Maximum and minimum values listed below represent the characteristic soils for this site.

Characteristic Soils:

Atoka (petrocalcic)
Bigetty
Reagan
Reakor
Reeves (gypsum)
Russler (gypsum)
Largo
Russler (gypsum)
Largo
Berino
Tinney
Midessa
Ratliff
Holloman (gypsum)
Milner (gypsum)

Table 4. Representative soil features

Surface texture	(1) Loam (2) Very fine sandy loam (3) Silt loam
Family particle size	(1) Loamy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to slow
Soil depth	30–72 in

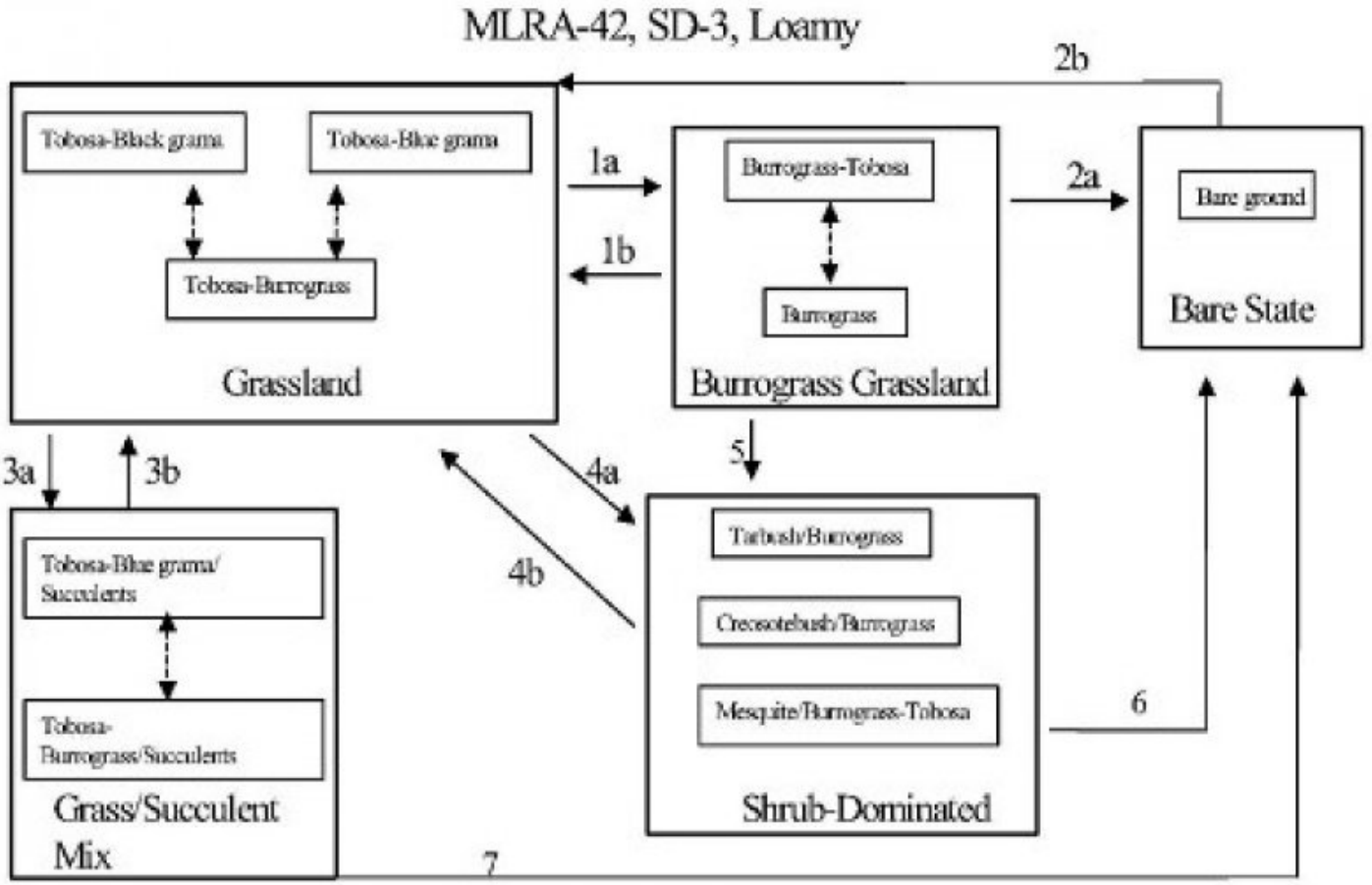
Surface fragment cover <=3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–12 in
Calcium carbonate equivalent (0-40in)	0–10%
Electrical conductivity (0-40in)	0–8 mmhos/cm
Sodium adsorption ratio (0-40in)	0–6
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	0–5%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview: The Loamy site is associated with the Gyp Upland ecological site with which it intergrades. There is a pronounced increase in alkali sacaton along this interface. The loamy site is also associated with the Gravelly and Shallow ecological sites from which it receives run-on water. The Draw site often dissects Loamy sites and is distinguished from the Loamy site by increased production or greater densities of woody species. The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Tobosa, black grama and blue grama are the dominant species. Retrogression within this state is characterized by a decrease in black and blue grama and an increase in burrograss. Continuous overgrazing and drought can initiate a transition to a Burrograss- Grassland state. Continued reduction in grass cover and resulting infiltration problems may eventually effect a change to a Bare State, with very little or no remaining grass cover. Alternatively, creosotebush, tarbush or mesquite may expand or invade. Transitions back to a Grassland State from a Bare or Shrub-Dominated state are costly and may not be economically feasible. Decreased fire frequency may play a part in the transition to the Grass/Succulent Mix state with increased amounts of cholla and prickly pear.

State and transition model

Plant Communities and Transitional Pathways (diagram)



1a. Soil drying, overgrazing, drought, soil surface sealing. 1b. Restore natural overland flow, increase infiltration, prescribed grazing.

2a. Severe reduction in cover, soil surface sealing, decreased infiltration, erosion. 2b. Restore hydrology, break up physical crust, range seeding, prescribed grazing.

3a. Lack of fire, overgrazing, hail storms or other physical disturbance, drought. 3b. Prescribed fire, brush control, prescribed grazing.

4a. Seed dispersal of shrubs, persistent loss of grass cover, competition by shrubs, lack of fire. 4b. Brush control, range seeding -dependent on amount of grass (seed bank) remaining.

5. Loss of grass cover, seed dispersal of shrubs, competition by shrubs.

6. & 7. Brush control with continued loss of grass cover, soil sealing, erosion.

State 1
Historic Climax Plant Community

Community 1.1
Historic Climax Plant Community

State Containing Historic Climax Plant Community Grassland: The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Black grama, blue grama, and tobosa are the dominant grass species. There are a variety of perennial forbs and their production varies widely by season and year. Globemallow, verbena, groundsels, croton and filaree are forbs commonly found on this site. Fourwing saltbush and winterfat are two of the more palatable shrubs. The Loamy ecological site encompasses a

wide variety of soils, with surface textures ranging from sandy loams to clay loams. Soil depths range from shallow to very deep and can include sub surface features such as calcic, petrocalcic, and gypsic horizons. These variations cause differences in plant community composition and dynamics. Black grama is found at highest densities on coarser textured sandy loams, with blue grama preferring finer textured loam and silt loam, and tobosa favoring lower landscape positions and loam to clay loam surface textures. Burrograss may often be the dominant grass species on silty soils, perhaps in part due to the seedlings ability to auger into and establish on physically crusted soils. Gypsum influenced soils typically have greater amounts of tobosa, burrograss, and ephedra. There is greater representation of sideoats and vine mesquite within the tobosa-blue grama community. Retrogression under continuous heavy grazing results in a decrease of black grama, blue grama, sideoats grama, plains bristlegrass, bush muhly, cane bluestem, vine mesquite, winterfat, and fourwing saltbush. Species such as burrograss, threeawns, sand dropseed, sand muhly, and broom snakeweed increase under continuous heavy grazing or prolonged periods of drought. Under continued retrogression burrograss can completely dominate the site. Creosotebush, tarbush, and mesquite, can also dominate. Cholla and prickly pear can increase on areas that are disturbed or overgrazed. Diagnosis: Tobosa, black grama, and blue grama are the dominant species. Grass cover is uniformly distributed with few large bare areas. Shrubs are sparse and evenly distributed. Slopes range from level to gently sloping and usually display limited evidence of active rills and gully formation if plant cover remains intact. Litter movement associated with overland flow is limited to smaller size class litter and short distances. Other shrubs include: yucca, mesquite, tarbush, cholla and creosote bush. Other forbs include: desert holly, scorpionweed, bladderpod, flax, nama, fleabane, Indianwheat, Indian blanket flower, groundcherry, deerstongue, and rayless goldenrod.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	585	833	1080
Forb	39	55	72
Shrub/Vine	26	37	48
Total	**650**	**925**	**1200**

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	15-30%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	25-30%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	40-50%

Figure 5. Plant community growth curve (percent production by month). NM2807, R042XC007NM Loamy HCPC. R042XC007NM Loamy HCPC Warm Season Plant Community..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	0	5	10	10	25	30	15	5	0	0

State 2

Burrograss-Grassland

Community 2.1
Burrograss-Grassland

Burrograss-Grassland: Changes in hydrology resulting in decreased available soil moisture, reduces grass cover and increases bare ground. Burrograss is the dominant grass. Tobosa cover is variable and can range from sizeable areas to small patches occupying only depressions or the lowest and wettest positions within the site. Threeawns, ear muhly, sand muhly, and fluffgrass occur at increased densities compared to the grassland state. Shrub densities may increase especially mesquite, creosotebush or tarbush. Retrogression within this state is characterized by a further decrease in grass cover and increased bare ground. Further deterioration of this site can result in the transition to a bare state or becoming shrub dominated. Diagnosis: Burrograss is the dominant species. Grass cover is no longer uniformly distributed, instead tending to be patchy with large areas of bare ground present. Physical crusts are present in bare areas reducing infiltration and suppressing seedling establishment by any grass species other than burrograss. Transition to Burrograss-Grassland (1a): Transitions from grassland to a burrograss-grassland state may occur due to changes in hydrology. Gullies, roads or obstructions that alter natural water flow patterns may cause this transition. Changes in surface hydrology may also occur due to overgrazing or drought. The reduction in grass cover promotes increased soil physical crusts and reduces infiltration. 5 Key indicators of approach to transition: ? Diversion of overland flow resulting in decreased soil moisture. ? Increase in amount of burrograss cover ? Reduction in grass cover and increase in size and frequency of bare patches. ? Formation of physical crusts—indicating reduced infiltration. ? Evidence of litter movement—indicating loss or redistribution of organic matter. Transition back to Grassland (1b) The natural hydrology of the site must be returned. Culverts, turnouts, or rerouting roads may help re-establish natural overland flow, if roads or trails have altered the hydrology. Erosion control structures or shaping and filling gullies may help regain natural flow patterns and establish vegetation if the flow has been channeled. Breaking up physical crusts by soil disturbance may promote infiltration and seedling emergence. Allow natural revegetation to take place. Prescribed grazing will help ensure proper forage utilization and reduce grass loss due to grazing.

State 3
Bare State

Community 3.1
Bare State

Bare State: Extremely low ground cover, soil degradation and erosion characterize this state. Very little vegetation remains. Burrograss is the dominant grass and cover is extremely patchy. Physical soil crusts are extensive. Erosion and resource depletion increase as site degrades. Diagnosis: Very little cover remains. Erosion is evident by soil sealing, water flow patterns, pedestals or terracettes. Rills and gullies may be present and active. Transition to Bare State (2a): Extended drought, continuous heavy grazing, or other disturbance that severely depletes grass cover can effect this transition. As grass cover decreases, sheet flow and erosion increase, and physical soil crusts form, thereby further reducing infiltration. Key indicators of approach to transition: ? Continued reduction in grass cover. ? Increased soil surface sealing. ? Increased erosion. ? Reduced aggregate stability in bare areas. Transition back to Grassland (2b) Restore the hydrology, see (1a). With the extent of grass loss range seeding may be necessary. Utilizing livestock or mechanical means to break up the physical crusts may increase infiltration and aid seedling establishment. Prescribed grazing will help ensure adequate deferment period following seeding, and proper forage utilization once the grass stand is well established. The degree to which this site is capable of recovery depends on the restoration of hydrology, extent of degradation to soil resources, and adequate rainfall necessary to establish grasses.

State 4
Grass/Succulent Mix

Community 4.1
Grass/Succulent Mix

Grass / Succulent Mix: Increased representations of succulents characterize this site. Increased densities of cholla or pricklypear is recognized as a management concern, but their impact on grass production is unclear. Light to

medium cholla or prickly pear infestation doesn't seem to greatly reduce grass production, however it limits access to palatable grasses and interferes with livestock movement and handling. Tobosa and blue grama are the dominant species on this site. Retrogression within this site is characterized by a decrease in blue grama and an increase in succulents, tobosa and burrograss. Diagnosis: Cholla or prickly pear is found at increased densities. Grass cover is variable ranging from uniformly distributed to patchy with frequent areas of bare ground present. Tobosa or blue grama is the dominant grass species. Transition to Grass/Succulent Mix (3a): If fire was historically a part of desert grassland ecosystem and played a role in suppressing seedlings of shrubs and succulents, then fire suppression may favor the increase of succulents.1 Heavy grazing by livestock or other physical disturbances may help disseminate seed and increase the establishment of succulents. Areas historically overgrazed by sheep are sometimes associated with higher densities of Succulents. Intense hailstorms can spread pricklypear by breaking off joints causing new plants to take root.3 During severe drought perennial grass cover can decline significantly, leaving resources available for use by more drought tolerant succulents. Cholla and pricklypear are both adapted to and favored by drought due to the ability of their shallow, wide spreading root systems to absorb and store water.4 Key indicators of approach to transition: ? Decrease or change in distribution of grass cover. ? Increase in amount of succulent seedlings. ? Increased cover of succulents. Transition back to Grassland (3b) Fire is an effective means of controlling cholla and prickly pear if adequate grass cover remains to carry fire.2 Cholla greater than two feet tall or pricklypear with a large amount of pads (>15-20) are harder to kill. Chemical control is effective in controlling prickly pear and cholla; apply when growth starts in May. Hand grubbing is also effective if cholla or pricklypear is severed 2-4 inches below ground and care is taken not to let broken joints or pads take root. Stacking and burning piles and grubbing during winter or drought help keeps broken joints and pads from rooting. Prescribed grazing will help ensure proper forage utilization and sustain grass cover.

State 5
Shrub Dominated

Community 5.1
Shrub Dominated

Shrub Dominated: Increased shrub cover characterizes this state. Mesquite, creosotebush, and/or tarbush are the dominant shrub species. Burrograss or tobosa is the dominant grass species. Grass cover is decreased, typically patchy with large bare areas present; however, sometimes grass cover can remain relatively high for extended periods when associated with light to moderate infestations of mesquite. Variations in soil characteristics play a part in determining which shrub species increase. Mesquite is well adapted to a wide range of soil types, but increases more often on deep soils low in carbonates, that have a sandy surface overlying finer textured soils. Tarbush prefers finer textured, calcareous soils, usually in lower positions that receive some extra water. Creosotebush is less tolerant of fine textured soils, preferring sandy, calcareous soils that have some gravel. Creosotebush also does well on soils that are shallow over caliche. Retrogression within this state is characterized by a decrease in tobosa, and an increase in burrograss. As the site continues to degrade shrub cover continues to increase and grass cover is severely reduced. Diagnosis: Mesquite, Creosotebush, and/or tarbush are the dominant shrubs. Blue grama and black grama cover is low or absent. Burrograss or tobosa are the dominant grasses. Typically grass cover is patchy with large interconnected bare areas present. Physical soil crusts are present, especially on silt loam surface soils. Transition to Shrub Dominated (4a): Wildlife and livestock consume and disperse mesquite seeds. Flood events may wash creosote or tarbush seeds off adjacent gravelly sites onto the loamy site and supply adequate moisture for germination. Persistent loss of grass cover due to overgrazing or drought can cause large bare patches, providing competition free areas for shrub seedling establishment. As shrub cover increases, competition for soil resources, especially water, becomes a major factor in further reducing grass cover. Reduction of fire, due to either fire suppression policy or loss of adequate fine fuels may increase the probability of shrub encroachment. Increased soil surface physical crusts and associated decreased infiltration, may prevent the establishment of grass seedlings. Transition to Shrub Dominated (5): The dispersal of creosotebush, tarbush or mesquite seed, combined with loss of grass cover and resource competition by shrubs may cause this transition. Key indicators of approach to transition: ? Decreased grass and litter cover. ? Increased bare patch size. ? Increased physical soil crusts. ? Increased amount of mesquite, creosotebush, or tarbush seedlings. ? Increased shrub cover. Transition back to Grassland (4b) Brush control will be necessary to remove shrubs and eliminate competition for resources necessary for grass establishment or reproduction. Seeding may be necessary on those sites where desired grass species are absent or very limited. Pitting and seeding may increase the chances of successful grass establishment. Prescribed grazing will help ensure adequate time is elapsed before grazing seeded area is allowed and proper forage utilization following seeding establishment. Transition to Bare State (6): If grass cover on the shrub-dominated state is

severely limited and shrubs are removed a bare state may result. This transition will depend on amount of grasses or seed remaining, whether site is seeded, or if seeding is successful. Transition to Bare State (7): Removal of succulents and continued overgrazing or drought may cause loss of remaining grasses and erosion. Soil surface physical crusting may also be an important factor in inhibiting grass seedling establishment

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	**Warm Season**			278–324	
	tobosagrass	PLMU3	*Pleuraphis mutica*	278–324	–
2	**Warm Season**			9–46	
	burrograss	SCBR2	*Scleropogon brevifolius*	9–46	–
3	**Warm Season**			231–278	
	black grama	BOER4	*Bouteloua eriopoda*	231–278	–
	blue grama	BOGR2	*Bouteloua gracilis*	231–278	–
4	**Warm Season**			28–46	
	sideoats grama	BOCU	*Bouteloua curtipendula*	28–46	–
5	**Warm Season**			46–93	
	bush muhly	MUPO2	*Muhlenbergia porteri*	46–93	–
	plains bristlegrass	SEVU2	*Setaria vulpiseta*	46–93	–
6	**Warm Season**			9–28	
	Arizona cottontop	DICA8	*Digitaria californica*	9–28	–
7	**Warm Season**			46–93	
	threeawn	ARIST	*Aristida*	46–93	–
	muhly	MUHLE	*Muhlenbergia*	46–93	–
	sand dropseed	SPCR	*Sporobolus cryptandrus*	46–93	–
8	**Warm Season**			28–46	
	Graminoid (grass or grass-like)	2GRAM	*Graminoid (grass or grass-like)*	28–46	–
Shrub/Vine					
9	**Shrub**			9–28	
	fourwing saltbush	ATCA2	*Atriplex canescens*	9–28	–
	jointfir	EPHED	*Ephedra*	9–28	–
	winterfat	KRLA2	*Krascheninnikovia lanata*	9–28	–
	cane bluestem	BOBA3	*Bothriochloa barbinodis*	5–24	–
	Arizona cottontop	DICA8	*Digitaria californica*	5–24	–
	plains bristlegrass	SEVU2	*Setaria vulpiseta*	5–24	–
10	**Shrub**			9–28	
	javelina bush	COER5	*Condalia ericoides*	9–28	–
	broom snakeweed	GUSA2	*Gutierrezia sarothrae*	9–28	–
	Grass, annual	2GA	*Grass, annual*	5–15	–
11	**Shrubs**			9–28	
	Shrub (>.5m)	2SHRUB	*Shrub (>.5m)*	9–28	–
Forb					

12	**Forb**			9–46	
	threadleaf ragwort	SEFLF	*Senecio flaccidus var. flaccidus*	9–46	–
	globemallow	SPHAE	*Sphaeralcea*	9–46	–
	verbena	VEPO4	*Verbena polystachya*	9–46	–
	broom snakeweed	GUSA2	*Gutierrezia sarothrae*	5–15	–
	pricklypear	OPUNT	*Opuntia*	5–15	–
13	**Forb**			9–28	
	croton	CROTO	*Croton*	9–28	–
	woolly groundsel	PACA15	*Packera cana*	9–28	–
14	**Forb**			9–28	
	Goodding's tansyaster	MAPIG2	*Machaeranthera pinnatifida ssp. gooddingii var. gooddingii*	9–28	–
	woolly paperflower	PSTA	*Psilostrophe tagetina*	9–28	–
15	**Forb**			9–28	
	redstem stork's bill	ERCI6	*Erodium cicutarium*	9–28	–
	Texas stork's bill	ERTE13	*Erodium texanum*	9–28	–
16	**Forb**			9–28	
	Forb (herbaceous, not grass nor grass-like)	2FORB	*Forb (herbaceous, not grass nor grass-like)*	9–28	–

Animal community

This site provides habitats which support a resident animal community that is characterized by pronghorn antelope, black-tailed jackrabbit, black tailed prairie dog, yellow-faced pocket gopher, banner-tailed kangaroo rat, hispid cotton rat, swift fox, burrowing owl, horned lark, mockingbird, meadowlark, mourning dove, scaled quail, Great Plains toad, plains spadefoot toad, prairie rattlesnake and western coachwhip shake.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations
Soil Series Hydrologic Group
Atoka C
Bigetty B
Ratliff B
Reyab B
Holloman B
Largo B
Holloman B
Bigetty B
Berino B
Reagan B
Reakor B
Reeves B
Russler C

Recreational uses

This site offers limited potential for hiking, horseback riding, nature observation and photography. Game bird, antelope and predator hunting are also limited.

Wood products

This site has no potential for wood products

Other products

This site is suitable for grazing by all kinds and classes of livestock, during all seasons of the year. Under retrogression, such plants as black grama, blue grama, sideoats grama, bush muhly, plains bristlegrass, Arizona cottontop, fourwing saltbush and winterfat decrease and there is an increase in burrograss, threeawns, sand dropseed, muhlys, broom snakeweed and javilinabush. Under continued retrogression, burrograss can completely dominate the site. Creosotebush, mesquite, and tarbush can also dominate. Grazing management alone will not improve the site in the above situation. This site is well suited to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM
100 - 76 3.0 – 4.2
75 – 51 4.1 – 5.5
50 – 26 5.3 – 7.0
25 – 0 7.1 +

Inventory data references

Other References:
Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County Lea County and Chavez County.

Other references

Literature References:

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pear cactus. p. 359-361. In: J.A. Smith and V.W. Hays (eds.) Proc. XIV Int. Grassland Congr. Westview Press, Boulder, Colo.

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Contributors

David Trujillo
Don Sylvester

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

1. **Number and extent of rills:**

2. **Presence of water flow patterns:**

3. **Number and height of erosional pedestals or terracettes:**

4. **Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):**

5. **Number of gullies and erosion associated with gullies:**

6. **Extent of wind scoured, blowouts and/or depositional areas:**

7. **Amount of litter movement (describe size and distance expected to travel):**

8. **Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):**

9. **Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):**

10. **Effect of community phase composition (relative proportion of different functional groups) and spatial**

distribution on infiltration and runoff:

11. **Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):**

12. **Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):**

    Dominant:

    Sub-dominant:

    Other:

    Additional:

13. **Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):**

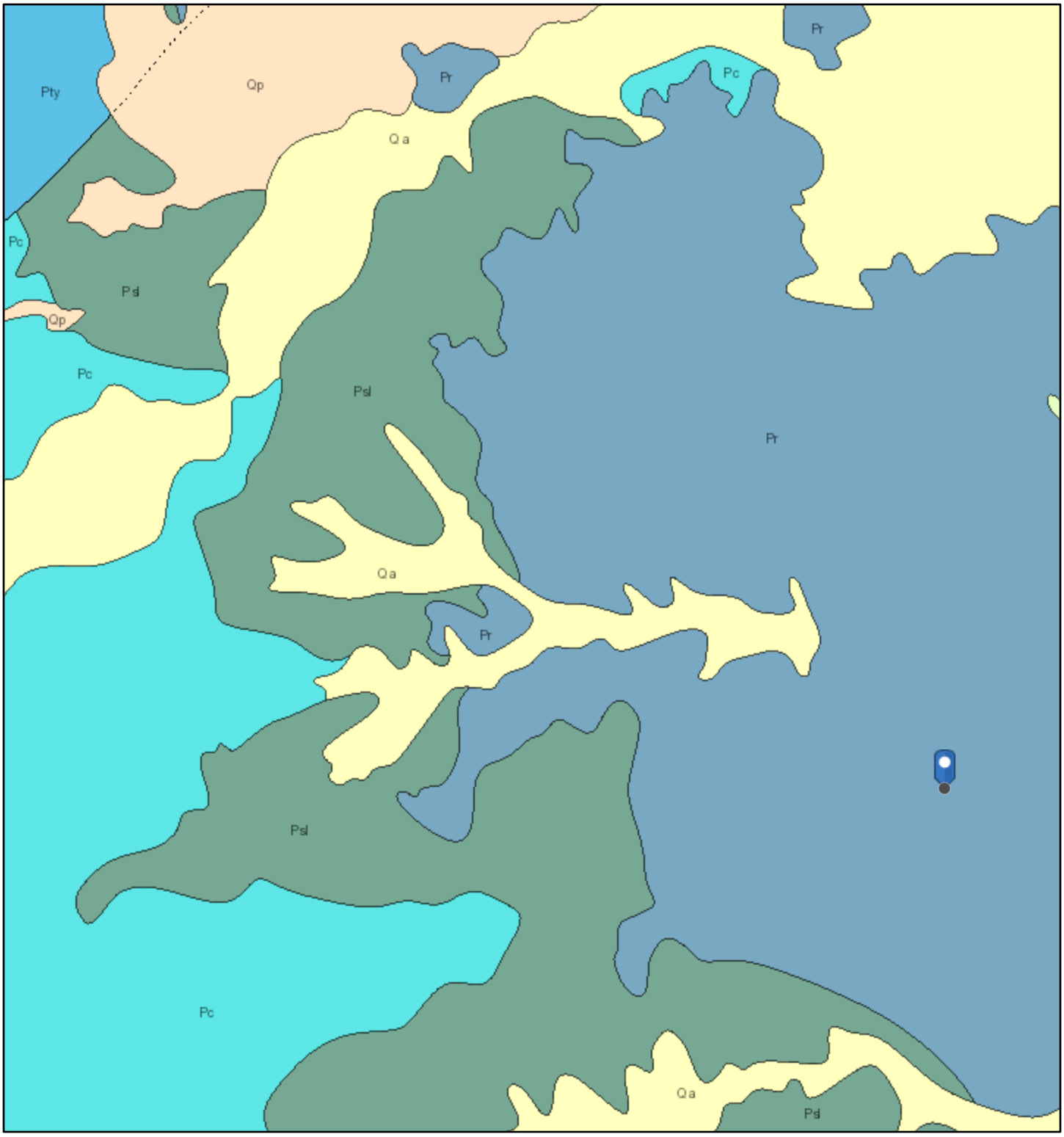
14. **Average percent litter cover (%) and depth (in):**

15. **Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):**

16. **Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:**

17. **Perennial plant reproductive capability:**

Landes to SRO Line Geology



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0 1.5 3 6 km

Lithologic Units

- Playa——Alluvium and evaporite deposits (Holocene)
- Water——Perenial standing water
- Qa——Alluvium (Holocene to upper Pleistocene)

Esri, NASA, NGA, USGS, NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS

ArcGIS Web AppBuilder

USGS The National Map: Boundaries, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National

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APPENDIX B – Daily Field and Sampling Report(s)

Daily Site Visit Report

Client:	BHS/DHI-Dalbo Holdings Inc.	Inspection Date:	1/6/2025
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	1/10/2025 4:39 PM
Client Contact Name:	Travis Gentz	API #:	
Client Contact Phone #:	888-610-1001		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	1/6/2025 8:10 AM
Departed Site	1/6/2025 3:15 PM

Field Notes

14:55 Start excavation near release point

Next Steps & Recommendations

1 Begin 4’ excavation area

Daily Site Visit Report

Site Photos

Viewing Direction: North	**Viewing Direction**: South
5’ excavation area	5’ excavation area

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Riley Plogger

Signature:
Signature

Daily Site Visit Report

Client:	BHS/DHI-Dalbo Holdings Inc.	Inspection Date:	1/7/2025
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	1/10/2025 9:33 PM
Client Contact Name:	Travis Gentz	API #:	
Client Contact Phone #:	888-610-1001		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	1/7/2025 8:10 AM
Departed Site	1/7/2025 12:30 PM

Field Notes

12:14 Continue excavating release point area

Next Steps & Recommendations

1 Finish excavation area

Daily Site Visit Report

Site Photos

Viewing Direction: Northwest	**Viewing Direction**: North
4’ Excavation	4’ excavation
Viewing Direction: North	**Viewing Direction**: North
5’ Excavation	Excavated material

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Riley Plogger

Signature:

Daily Site Visit Report

Client:	BHS/DHI-Dalbo Holdings Inc.	Inspection Date:	1/8/2025
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	1/10/2025 9:47 PM
Client Contact Name:	Travis Gentz	API #:	
Client Contact Phone #:	888-610-1001		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	1/8/2025 9:01 AM
Departed Site	1/8/2025 3:58 PM

Field Notes

15:46 Finish excavation on release point area

15:46 Field screen collected samples

Next Steps & Recommendations

1 Confirmation sampling event

Daily Site Visit Report

Site Photos

Viewing Direction: South	**Viewing Direction**: East
5’ excavation area	4’ excavation area
Viewing Direction: West	**Viewing Direction**: East
4’ excavation area	4’ excavation area

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Riley Plogger

Signature:

Daily Site Visit Report

Client:	BHS/DHI-Dalbo Holdings Inc.	Inspection Date:	1/9/2025
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	1/10/2025 9:36 PM
Client Contact Name:	Travis Gentz	API #:	
Client Contact Phone #:	888-610-1001		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	1/9/2025 9:35 AM
Departed Site	1/9/2025 12:51 PM

Field Notes

10:39 Collect confirmation samples

10:39 Field screen samples

Next Steps & Recommendations

1 Send samples off to lab for analysis

Daily Site Visit Report

Site Photos

Viewing Direction: North	**Viewing Direction**: West
Confirmation samples BES25-01 to BES25-09	Confirmation samples BES25-10 to BES25-14

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Riley Plogger

Signature:

Daily Site Visit Report

Client:	BHS/DHI-Dalbo Holdings Inc.	Inspection Date:	2/27/2025
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	2/28/2025 8:31 PM
Client Contact Name:	Travis Gentz	API #:	
Client Contact Phone #:	888-610-1001		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	2/27/2025 9:15 AM
Departed Site	2/27/2025 12:00 PM

Field Notes

10:15 Reclamation reporting

10:15 Site was seeded

Next Steps & Recommendations

1

Daily Site Visit Report

Site Photos

Viewing Direction: South

Temp road matches original topography

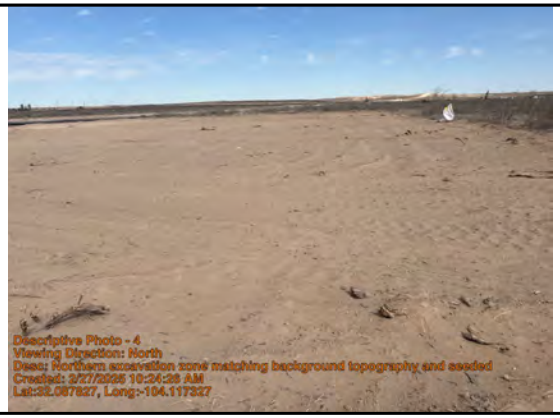
Viewing Direction: South

Temp road seeded

Viewing Direction: East

Site background vegetation and topography

Viewing Direction: North



Northern excavation zone matching background topography and seeded

Daily Site Visit Report

Viewing Direction: North	**Viewing Direction**: South
Northern excavation zone seeded	Southern road matching topography
Viewing Direction: South	**Viewing Direction**: South
Southern excavation area with matching topography	Middle excavation zone matching topography and seeded

Daily Site Visit Report

Viewing Direction: Southeast

Middle excavation zone seeded

Viewing Direction: South

Southern temp road seeded

Viewing Direction: South

Southern excavation zone seeded

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

APPENDIX C – Laboratory Data Report(s) and Chain of Custody Form(s)

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 9/9/2024 12:07:04 PM

JOB DESCRIPTION

Landes to SRO Line
24E-03618

JOB NUMBER

890-7066-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 4/3/2025 2:18:49 PM

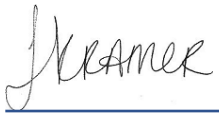
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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9/9/2024 12:07:04 PM

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

Client: Vertex
Project/Site: Landes to SRO Line

Laboratory Job ID: 890-7066-1
SDG: 24E-03618

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 60
QC Sample Results 64
QC Association Summary 80
Lab Chronicle 95
Certification Summary 115
Method Summary 116
Sample Summary 117
Chain of Custody 119
Receipt Checklists 126

Definitions/Glossary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Vertex
Project: Landes to SRO Line

Job ID: 890-7066-1

Job ID: 890-7066-1 Eurofins Carlsbad

Job Narrative
890-7066-1

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 8/30/2024 8:50 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 -1.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH24-16 (890-7066-1), BH24-16 (890-7066-2), BH24-16 (890-7066-3), BH24-17 (890-7066-4), BH24-17 (890-7066-5), BH24-17 (890-7066-6), BH24-18 (890-7066-7), BH24-18 (890-7066-8), BH24-18 (890-7066-9), BH24-19 (890-7066-10), BH24-19 (890-7066-11), BH24-19 (890-7066-12), BH24-20 (890-7066-13), BH24-20 (890-7066-14), BH24-20 (890-7066-15), BH24-21 (890-7066-16), BH24-21 (890-7066-17), BH24-21 (890-7066-18), BH24-22 (890-7066-19), BH24-22 (890-7066-20), BH24-22 (890-7066-21), BH24-23 (890-7066-22), BH24-23 (890-7066-23), BH24-23 (890-7066-24), BH24-24 (890-7066-25), BH24-24 (890-7066-26), BH24-24 (890-7066-27), BH24-25 (890-7066-28), BH24-25 (890-7066-29), BH24-25 (890-7066-30), BH24-26 (890-7066-31), BH24-26 (890-7066-32), BH24-26 (890-7066-33), BH24-27 (890-7066-34), BH24-27 (890-7066-35), BH24-27 (890-7066-36), BH24-28 (890-7066-37), BH24-28 (890-7066-38), BH24-28 (890-7066-39), BH24-29 (890-7066-40), BH24-29 (890-7066-41), BH24-29 (890-7066-42), BH24-30 (890-7066-43), BH24-30 (890-7066-44), BH24-30 (890-7066-45), BH24-31 (890-7066-46), BH24-31 (890-7066-47), BH24-31 (890-7066-48), BH24-32 (890-7066-49), BH24-32 (890-7066-50), BH24-32 (890-7066-51), BH24-33 (890-7066-52), BH24-33 (890-7066-53), BH24-33 (890-7066-54), BH24-34 (890-7066-55), BH24-34 (890-7066-56), BH24-34 (890-7066-57), BH24-35 (890-7066-58), BH24-35 (890-7066-59), BH24-35 (890-7066-60), BH24-36 (890-7066-61), BH24-36 (890-7066-62), BH24-36 (890-7066-63), BH24-37 (890-7066-64), BH24-37 (890-7066-65) and BH24-37 (890-7066-66).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-89903 and 880-89909 and analytical batch 880-89913 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-89913/33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-89911 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-89911/20).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-89901 and analytical batch 880-89911 was outside the control limits.

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

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH24-23 (890-7066-23), BH24-25 (890-7066-29), BH24-25 (890-7066-30), BH24-28 (890-7066-37) and BH24-28 (890-7066-39). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH24-23 (890-7066-24), BH24-25 (890-7066-28), BH24-26 (890-7066-33), BH24-27 (890-7066-36), (LCSD 880-89939/3-A), (890-7066-A-21-E MS) and (890-7066-A-21-F MSD). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Vertex Job ID: 890-7066-1
Project: Landes to SRO Line

Job ID: 890-7066-1 (Continued) Eurofins Carlsbad

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-89939 and analytical batch 880-90077 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-89940 and analytical batch 880-90080 was outside the upper control limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-90080 exhibited % difference of > 20% for the following analyte(s)1-Chlorooctane. These results are within the acceptance limits but exceed the performance criteria.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH24-20 (890-7066-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH24-16 (890-7066-1), BH24-16 (890-7066-2), BH24-16 (890-7066-3), BH24-17 (890-7066-4), BH24-17 (890-7066-5), BH24-17 (890-7066-6), BH24-18 (890-7066-7), BH24-18 (890-7066-8), BH24-18 (890-7066-9), BH24-19 (890-7066-10), BH24-20 (890-7066-13), BH24-21 (890-7066-17), BH24-21 (890-7066-18) and BH24-22 (890-7066-20). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH24-19 (890-7066-12), BH24-20 (890-7066-15), BH24-21 (890-7066-16), BH24-22 (890-7066-19) and (890-7066-A-1-F MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike duplicate (MSD) recoveries for preparation batch 880-89951 and analytical batch 880-90020 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The associated samples are: BH24-21 (890-7066-17), BH24-21 (890-7066-18), BH24-22 (890-7066-19), BH24-22 (890-7066-20), BH24-22 (890-7066-21), BH24-23 (890-7066-22), BH24-23 (890-7066-23), BH24-23 (890-7066-24), BH24-24 (890-7066-25), BH24-24 (890-7066-26) and (890-7066-A-17-E MSD).

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

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-16
Date Collected: 08/28/24 08:30
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 14:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 14:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 14:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/03/24 08:34	09/03/24 14:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 14:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/03/24 08:34	09/03/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/03/24 08:34*	*09/03/24 14:45*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*09/03/24 08:34*	*09/03/24 14:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/03/24 14:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/06/24 13:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/03/24 10:53	09/06/24 13:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/03/24 10:53	09/06/24 13:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 10:53	09/06/24 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 13:26*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 13:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.8**		5.00		mg/Kg			09/06/24 00:23	1

Client Sample ID: BH24-16
Date Collected: 08/28/24 08:33
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 15:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 15:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 15:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:34	09/03/24 15:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 15:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:34	09/03/24 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/03/24 08:34*	*09/03/24 15:12*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-16
Date Collected: 08/28/24 08:33
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*09/03/24 08:34*	*09/03/24 15:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/03/24 15:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			09/06/24 14:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		09/03/24 10:53	09/06/24 14:14	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		09/03/24 10:53	09/06/24 14:14	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		09/03/24 10:53	09/06/24 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*153*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 14:14*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 14:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.8**		5.03	mg/Kg			09/06/24 00:48	1

Client Sample ID: BH24-16
Date Collected: 08/28/24 08:37
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:34	09/03/24 15:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:34	09/03/24 15:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:34	09/03/24 15:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/03/24 08:34	09/03/24 15:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:34	09/03/24 15:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/03/24 08:34	09/03/24 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/03/24 08:34*	*09/03/24 15:39*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*09/03/24 08:34*	*09/03/24 15:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/03/24 15:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			09/06/24 14:30	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-16

Lab Sample ID: 890-7066-3
Matrix: Solid
Date Collected: 08/28/24 08:37
Date Received: 08/30/24 08:50
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/03/24 10:53	09/06/24 14:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		09/03/24 10:53	09/06/24 14:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/03/24 10:53	09/06/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 14:30*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 14:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.7**		5.01		mg/Kg			09/06/24 00:56	1

Client Sample ID: BH24-17

Lab Sample ID: 890-7066-4
Matrix: Solid
Date Collected: 08/28/24 08:43
Date Received: 08/30/24 08:50
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 16:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 16:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 16:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/03/24 08:34	09/03/24 16:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 16:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/03/24 08:34	09/03/24 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/03/24 08:34*	*09/03/24 16:05*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/03/24 08:34*	*09/03/24 16:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/03/24 16:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/06/24 17:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/03/24 10:53	09/06/24 17:11	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		09/03/24 10:53	09/06/24 17:11	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/03/24 10:53	09/06/24 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*147*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 17:11*	*1*
o-Terphenyl	*286*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 17:11*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-17
Date Collected: 08/28/24 08:43
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.64		4.99		mg/Kg			09/06/24 09:46	1

Client Sample ID: BH24-17
Date Collected: 08/28/24 08:46
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/03/24 16:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/03/24 16:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/03/24 16:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:34	09/03/24 16:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/03/24 16:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:34	09/03/24 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*09/03/24 08:34*	*09/03/24 16:32*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/03/24 08:34*	*09/03/24 16:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/03/24 16:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/06/24 17:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 17:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 17:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*153*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 17:28*	*1*
o-Terphenyl	*147*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 17:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.8		5.00		mg/Kg			09/06/24 09:54	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-17

Date Collected: 08/28/24 08:49
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/03/24 16:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/03/24 16:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/03/24 16:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:34	09/03/24 16:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/03/24 16:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:34	09/03/24 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/03/24 08:34*	*09/03/24 16:58*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*09/03/24 08:34*	*09/03/24 16:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/03/24 16:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/06/24 17:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 17:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 17:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*153*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 17:44*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 17:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			09/06/24 10:02	1

Client Sample ID: BH24-18

Date Collected: 08/28/24 08:55
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 17:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 17:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 17:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:34	09/03/24 17:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 17:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:34	09/03/24 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/03/24 08:34*	*09/03/24 17:25*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-18
Date Collected: 08/28/24 08:55
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*09/03/24 08:34*	*09/03/24 17:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/03/24 17:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/06/24 18:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/03/24 10:53	09/06/24 18:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/03/24 10:53	09/06/24 18:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/03/24 10:53	09/06/24 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 18:00*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 18:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.5**		4.96	mg/Kg			09/05/24 09:52	1

Client Sample ID: BH24-18
Date Collected: 08/28/24 08:59
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/03/24 08:34	09/03/24 17:52	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/03/24 08:34	09/03/24 17:52	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/03/24 08:34	09/03/24 17:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/03/24 08:34	09/03/24 17:52	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/03/24 08:34	09/03/24 17:52	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/03/24 08:34	09/03/24 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/03/24 08:34*	*09/03/24 17:52*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*09/03/24 08:34*	*09/03/24 17:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			09/03/24 17:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/06/24 18:16	1

Eurofins Carlsbad

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-18
Date Collected: 08/28/24 08:59
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/03/24 10:53	09/06/24 18:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/03/24 10:53	09/06/24 18:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 10:53	09/06/24 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 18:16*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 18:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.8**		5.05		mg/Kg			09/05/24 10:18	1

Client Sample ID: BH24-18
Date Collected: 08/28/24 09:02
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 18:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 18:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 18:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/03/24 08:34	09/03/24 18:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 18:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/03/24 08:34	09/03/24 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/03/24 08:34*	*09/03/24 18:19*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/03/24 08:34*	*09/03/24 18:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/03/24 18:19	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/06/24 18:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 18:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 18:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 18:32*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 18:32*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-18
Lab Sample ID: 890-7066-9
Date Collected: 08/28/24 09:02
Matrix: Solid
Date Received: 08/30/24 08:50
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			09/05/24 10:27	1

Client Sample ID: BH24-19
Lab Sample ID: 890-7066-10
Date Collected: 08/28/24 09:04
Matrix: Solid
Date Received: 08/30/24 08:50
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 18:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 18:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 18:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:34	09/03/24 18:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 18:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:34	09/03/24 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/03/24 08:34*	*09/03/24 18:45*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*09/03/24 08:34*	*09/03/24 18:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/03/24 18:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/06/24 18:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 18:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 18:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 18:48*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 18:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4900**		99.6		mg/Kg			09/05/24 10:36	20

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-19

Date Collected: 08/28/24 09:13
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:34	09/03/24 20:32	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:34	09/03/24 20:32	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:34	09/03/24 20:32	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/03/24 08:34	09/03/24 20:32	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:34	09/03/24 20:32	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/03/24 08:34	09/03/24 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/03/24 08:34*	*09/03/24 20:32*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*09/03/24 08:34*	*09/03/24 20:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/03/24 20:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/06/24 19:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 19:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 19:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*09/03/24 10:53*	*09/06/24 19:20*	*1*
o-Terphenyl	*113*		*70 - 130*	*09/03/24 10:53*	*09/06/24 19:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**721**		25.1		mg/Kg			09/05/24 10:45	5

Client Sample ID: BH24-19

Date Collected: 08/28/24 09:16
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 20:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 20:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 20:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/03/24 08:34	09/03/24 20:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 20:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/03/24 08:34	09/03/24 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/03/24 08:34*	*09/03/24 20:59*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-19
Date Collected: 08/28/24 09:16
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/03/24 08:34*	*09/03/24 20:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/03/24 20:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/06/24 19:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/03/24 10:53	09/06/24 19:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/03/24 10:53	09/06/24 19:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/03/24 10:53	09/06/24 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 19:37*	*1*
o-Terphenyl	*129*		*70 - 130*	*09/03/24 10:53*	*09/06/24 19:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1260**		4.98	mg/Kg			09/05/24 11:11	1

Client Sample ID: BH24-20
Date Collected: 08/28/24 09:23
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/03/24 08:34	09/03/24 21:25	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/03/24 08:34	09/03/24 21:25	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/03/24 08:34	09/03/24 21:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/03/24 08:34	09/03/24 21:25	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/03/24 08:34	09/03/24 21:25	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/03/24 08:34	09/03/24 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*09/03/24 08:34*	*09/03/24 21:25*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/03/24 08:34*	*09/03/24 21:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/03/24 21:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/06/24 19:53	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-20
Date Collected: 08/28/24 09:23
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/03/24 10:53	09/06/24 19:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/03/24 10:53	09/06/24 19:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 10:53	09/06/24 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*155*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 19:53*	*1*
o-Terphenyl	*146*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 19:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5750**		100		mg/Kg			09/05/24 11:20	20

Client Sample ID: BH24-20
Date Collected: 08/28/24 09:26
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/03/24 21:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/03/24 21:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/03/24 21:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:34	09/03/24 21:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/03/24 21:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:34	09/03/24 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/03/24 08:34*	*09/03/24 21:52*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/03/24 08:34*	*09/03/24 21:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/03/24 21:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/06/24 20:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 20:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 20:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 20:09*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 20:09*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-20
Date Collected: 08/28/24 09:26
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-14
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		24.9		mg/Kg			09/05/24 11:29	5

Client Sample ID: BH24-20
Date Collected: 08/28/24 09:31
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 22:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 22:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 22:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:34	09/03/24 22:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 22:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:34	09/03/24 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/03/24 08:34*	*09/03/24 22:18*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/03/24 08:34*	*09/03/24 22:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/03/24 22:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/06/24 20:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 20:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 20:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 20:25*	*1*
o-Terphenyl	*123*		*70 - 130*	*09/03/24 10:53*	*09/06/24 20:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.85		5.03		mg/Kg			09/05/24 11:38	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-21
Date Collected: 08/28/24 09:35
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:34	09/03/24 22:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:34	09/03/24 22:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:34	09/03/24 22:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/03/24 08:34	09/03/24 22:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:34	09/03/24 22:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/03/24 08:34	09/03/24 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*09/03/24 08:34*	*09/03/24 22:45*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/03/24 08:34*	*09/03/24 22:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/03/24 22:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/06/24 20:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 20:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 20:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 20:41*	*1*
o-Terphenyl	*124*		*70 - 130*	*09/03/24 10:53*	*09/06/24 20:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5340**		101		mg/Kg			09/05/24 11:47	20

Client Sample ID: BH24-21
Date Collected: 08/28/24 09:37
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-17
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 23:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 23:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 23:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:34	09/03/24 23:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:34	09/03/24 23:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:34	09/03/24 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/03/24 08:34*	*09/03/24 23:12*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-21
Date Collected: 08/28/24 09:37
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-17
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/03/24 08:34*	*09/03/24 23:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/03/24 23:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			09/06/24 20:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		09/03/24 10:53	09/06/24 20:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		09/03/24 10:53	09/06/24 20:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		09/03/24 10:53	09/06/24 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 20:57*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 20:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1560**	**F1**	24.9	mg/Kg			09/05/24 11:56	5

Client Sample ID: BH24-21
Date Collected: 08/28/24 09:41
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/03/24 08:34	09/03/24 23:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/03/24 08:34	09/03/24 23:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/03/24 08:34	09/03/24 23:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/03/24 08:34	09/03/24 23:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/03/24 08:34	09/03/24 23:39	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/03/24 08:34	09/03/24 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/03/24 08:34*	*09/03/24 23:39*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/03/24 08:34*	*09/03/24 23:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/03/24 23:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/06/24 21:13	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-21
Date Collected: 08/28/24 09:41
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 21:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 21:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*168*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 21:13*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 21:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			09/05/24 12:22	1

Client Sample ID: BH24-22
Date Collected: 08/28/24 09:47
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/04/24 00:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/04/24 00:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/04/24 00:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/03/24 08:34	09/04/24 00:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/04/24 00:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/03/24 08:34	09/04/24 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/03/24 08:34*	*09/04/24 00:05*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*09/03/24 08:34*	*09/04/24 00:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/04/24 00:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/06/24 21:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 21:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 21:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 21:29*	*1*
o-Terphenyl	*126*		*70 - 130*	*09/03/24 10:53*	*09/06/24 21:29*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-22
Date Collected: 08/28/24 09:47
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-19
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2800		99.8		mg/Kg			09/05/24 12:31	20

Client Sample ID: BH24-22
Date Collected: 08/28/24 09:51
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-20
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/04/24 00:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/04/24 00:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/04/24 00:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:34	09/04/24 00:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:34	09/04/24 00:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:34	09/04/24 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*09/03/24 08:34*	*09/04/24 00:32*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*09/03/24 08:34*	*09/04/24 00:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/04/24 00:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/06/24 21:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 21:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 21:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:53	09/06/24 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*147*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 21:46*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*09/03/24 10:53*	*09/06/24 21:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.7		4.98		mg/Kg			09/05/24 12:58	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-22

Lab Sample ID: 890-7066-21
Matrix: Solid
Date Collected: 08/28/24 09:54
Date Received: 08/30/24 08:50
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 16:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 16:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 16:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/03/24 08:36	09/03/24 16:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 16:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/03/24 08:36	09/03/24 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*09/03/24 08:36*	*09/03/24 16:51*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/03/24 08:36*	*09/03/24 16:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/03/24 16:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/04/24 23:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		09/03/24 10:56	09/04/24 23:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		09/03/24 10:56	09/04/24 23:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:56	09/04/24 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*09/03/24 10:56*	*09/04/24 23:51*	*1*
o-Terphenyl	*128*		*70 - 130*	*09/03/24 10:56*	*09/04/24 23:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.15**		5.05		mg/Kg			09/05/24 13:06	1

Client Sample ID: BH24-23

Lab Sample ID: 890-7066-22
Matrix: Solid
Date Collected: 08/28/24 09:59
Date Received: 08/30/24 08:50
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 17:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 17:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 17:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:36	09/03/24 17:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 17:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:36	09/03/24 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*09/03/24 08:36*	*09/03/24 17:12*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-23
Date Collected: 08/28/24 09:59
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-22
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/03/24 08:36*	*09/03/24 17:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/03/24 17:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			09/05/24 00:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	mg/Kg		09/03/24 10:56	09/05/24 00:38	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7	mg/Kg		09/03/24 10:56	09/05/24 00:38	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		09/03/24 10:56	09/05/24 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*09/03/24 10:56*	*09/05/24 00:38*	*1*
o-Terphenyl	*118*		*70 - 130*	*09/03/24 10:56*	*09/05/24 00:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3710**		50.4	mg/Kg			09/05/24 13:15	10

Client Sample ID: BH24-23
Date Collected: 08/28/24 10:04
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:36	09/03/24 17:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:36	09/03/24 17:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:36	09/03/24 17:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/03/24 08:36	09/03/24 17:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:36	09/03/24 17:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/03/24 08:36	09/03/24 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*09/03/24 08:36*	*09/03/24 17:32*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/03/24 08:36*	*09/03/24 17:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/03/24 17:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			09/05/24 00:54	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-23
Date Collected: 08/28/24 10:04
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		09/03/24 10:56	09/05/24 00:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		09/03/24 10:56	09/05/24 00:54	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/03/24 10:56	09/05/24 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 00:54*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 00:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**229**		4.98		mg/Kg			09/05/24 13:24	1

Client Sample ID: BH24-23
Date Collected: 08/28/24 10:09
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-24
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 17:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 17:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 17:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/03/24 08:36	09/03/24 17:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 17:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/03/24 08:36	09/03/24 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*09/03/24 08:36*	*09/03/24 17:53*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*09/03/24 08:36*	*09/03/24 17:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/03/24 17:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/05/24 01:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		09/03/24 10:56	09/05/24 01:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		09/03/24 10:56	09/05/24 01:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:56	09/05/24 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*09/03/24 10:56*	*09/05/24 01:09*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 01:09*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-23
Date Collected: 08/28/24 10:09
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-24
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.55		4.98		mg/Kg			09/05/24 13:33	1

Client Sample ID: BH24-24
Date Collected: 08/28/24 10:14
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-25
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/03/24 18:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/03/24 18:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/03/24 18:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:36	09/03/24 18:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/03/24 18:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:36	09/03/24 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*09/03/24 08:36*	*09/03/24 18:13*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/03/24 08:36*	*09/03/24 18:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/03/24 18:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/05/24 01:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/03/24 10:56	09/05/24 01:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/03/24 10:56	09/05/24 01:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:56	09/05/24 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*09/03/24 10:56*	*09/05/24 01:25*	*1*
o-Terphenyl	*121*		*70 - 130*	*09/03/24 10:56*	*09/05/24 01:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.82		4.95		mg/Kg			09/05/24 13:42	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-24
Date Collected: 08/28/24 10:18
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-26
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/03/24 18:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/03/24 18:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/03/24 18:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:36	09/03/24 18:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/03/24 18:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:36	09/03/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/03/24 08:36*	*09/03/24 18:34*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/03/24 08:36*	*09/03/24 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/03/24 18:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/05/24 01:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		09/03/24 10:56	09/05/24 01:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		09/03/24 10:56	09/05/24 01:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/03/24 10:56	09/05/24 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*09/03/24 10:56*	*09/05/24 01:41*	*1*
o-Terphenyl	*123*		*70 - 130*	*09/03/24 10:56*	*09/05/24 01:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			09/05/24 13:51	1

Client Sample ID: BH24-24
Date Collected: 08/28/24 10:22
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-27
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 18:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 18:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 18:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:36	09/03/24 18:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 18:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:36	09/03/24 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*09/03/24 08:36*	*09/03/24 18:55*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-24

Lab Sample ID: 890-7066-27
Matrix: Solid
Date Collected: 08/28/24 10:22
Date Received: 08/30/24 08:50
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/03/24 08:36*	*09/03/24 18:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/03/24 18:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/05/24 01:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		09/03/24 10:56	09/05/24 01:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		09/03/24 10:56	09/05/24 01:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/03/24 10:56	09/05/24 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*09/03/24 10:56*	*09/05/24 01:57*	*1*
o-Terphenyl	*118*		*70 - 130*	*09/03/24 10:56*	*09/05/24 01:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/05/24 03:41	1

Client Sample ID: BH24-25

Lab Sample ID: 890-7066-28
Matrix: Solid
Date Collected: 08/28/24 10:27
Date Received: 08/30/24 08:50
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/03/24 08:36	09/03/24 19:15	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/03/24 08:36	09/03/24 19:15	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/03/24 08:36	09/03/24 19:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/03/24 08:36	09/03/24 19:15	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/03/24 08:36	09/03/24 19:15	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/03/24 08:36	09/03/24 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*09/03/24 08:36*	*09/03/24 19:15*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*09/03/24 08:36*	*09/03/24 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			09/03/24 19:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/05/24 02:12	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-25
Date Collected: 08/28/24 10:27
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-28
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/03/24 10:56	09/05/24 02:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/03/24 10:56	09/05/24 02:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:56	09/05/24 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*09/03/24 10:56*	*09/05/24 02:12*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 02:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			09/05/24 04:06	1

Client Sample ID: BH24-25
Date Collected: 08/28/24 10:33
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-29
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 19:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 19:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 19:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/03/24 08:36	09/03/24 19:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 19:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/03/24 08:36	09/03/24 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*09/03/24 08:36*	*09/03/24 19:36*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*09/03/24 08:36*	*09/03/24 19:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/03/24 19:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/05/24 02:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/03/24 10:56	09/05/24 02:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/03/24 10:56	09/05/24 02:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:56	09/05/24 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 02:28*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 02:28*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-25
Date Collected: 08/28/24 10:33
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-29
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.9		4.98		mg/Kg			09/05/24 04:14	1

Client Sample ID: BH24-25
Date Collected: 08/28/24 10:36
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-30
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 19:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 19:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 19:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:36	09/03/24 19:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 19:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:36	09/03/24 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*09/03/24 08:36*	*09/03/24 19:56*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/03/24 08:36*	*09/03/24 19:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/03/24 19:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/05/24 02:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		09/03/24 10:56	09/05/24 02:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		09/03/24 10:56	09/05/24 02:44	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/03/24 10:56	09/05/24 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 02:44*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 02:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.7		5.02		mg/Kg			09/05/24 04:22	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-26
Date Collected: 08/28/24 10:40
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-31
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:36	09/03/24 21:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:36	09/03/24 21:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:36	09/03/24 21:20	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/03/24 08:36	09/03/24 21:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:36	09/03/24 21:20	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/03/24 08:36	09/03/24 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*09/03/24 08:36*	*09/03/24 21:20*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/03/24 08:36*	*09/03/24 21:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/03/24 21:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/05/24 03:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		09/03/24 10:56	09/05/24 03:15	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		09/03/24 10:56	09/05/24 03:15	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/03/24 10:56	09/05/24 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*09/03/24 10:56*	*09/05/24 03:15*	*1*
o-Terphenyl	*118*		*70 - 130*	*09/03/24 10:56*	*09/05/24 03:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			09/05/24 04:30	1

Client Sample ID: BH24-26
Date Collected: 08/28/24 10:44
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-32
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 21:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 21:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 21:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/03/24 08:36	09/03/24 21:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 21:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/03/24 08:36	09/03/24 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*09/03/24 08:36*	*09/03/24 21:41*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-26
Date Collected: 08/28/24 10:44
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-32
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/03/24 08:36*	*09/03/24 21:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/03/24 21:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/05/24 03:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		09/03/24 10:56	09/05/24 03:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		09/03/24 10:56	09/05/24 03:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/03/24 10:56	09/05/24 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*09/03/24 10:56*	*09/05/24 03:31*	*1*
o-Terphenyl	*120*		*70 - 130*	*09/03/24 10:56*	*09/05/24 03:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.81**		4.96	mg/Kg			09/05/24 04:55	1

Client Sample ID: BH24-26
Date Collected: 08/28/24 10:48
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-33
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/03/24 08:36	09/03/24 22:02	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/03/24 08:36	09/03/24 22:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/03/24 08:36	09/03/24 22:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/03/24 08:36	09/03/24 22:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/03/24 08:36	09/03/24 22:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/03/24 08:36	09/03/24 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*09/03/24 08:36*	*09/03/24 22:02*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*09/03/24 08:36*	*09/03/24 22:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/03/24 22:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/05/24 03:47	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-26
Date Collected: 08/28/24 10:48
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-33
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		09/03/24 10:56	09/05/24 03:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		09/03/24 10:56	09/05/24 03:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:56	09/05/24 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*09/03/24 10:56*	*09/05/24 03:47*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 03:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.0**		4.98		mg/Kg			09/05/24 05:03	1

Client Sample ID: BH24-27
Date Collected: 08/28/24 10:54
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-34
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/03/24 22:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/03/24 22:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/03/24 22:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:36	09/03/24 22:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/03/24 22:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:36	09/03/24 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*09/03/24 08:36*	*09/03/24 22:22*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/03/24 08:36*	*09/03/24 22:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/03/24 22:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/05/24 04:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		09/03/24 10:56	09/05/24 04:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		09/03/24 10:56	09/05/24 04:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:56	09/05/24 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*09/03/24 10:56*	*09/05/24 04:02*	*1*
o-Terphenyl	*121*		*70 - 130*	*09/03/24 10:56*	*09/05/24 04:02*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-27
Date Collected: 08/28/24 10:54
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-34
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.54		5.04		mg/Kg			09/05/24 05:11	1

Client Sample ID: BH24-27
Date Collected: 08/28/24 10:59
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-35
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 22:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 22:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 22:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:36	09/03/24 22:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 22:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:36	09/03/24 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/03/24 08:36*	*09/03/24 22:43*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/03/24 08:36*	*09/03/24 22:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/03/24 22:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/05/24 04:19	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/03/24 10:56	09/05/24 04:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		09/03/24 10:56	09/05/24 04:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 10:56	09/05/24 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*09/03/24 10:56*	*09/05/24 04:19*	*1*
o-Terphenyl	*129*		*70 - 130*	*09/03/24 10:56*	*09/05/24 04:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.1		4.98		mg/Kg			09/05/24 05:19	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-27

Lab Sample ID: 890-7066-36
Matrix: Solid
Date Collected: 08/28/24 11:04
Date Received: 08/30/24 08:50
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:36	09/03/24 23:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:36	09/03/24 23:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:36	09/03/24 23:03	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/03/24 08:36	09/03/24 23:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:36	09/03/24 23:03	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/03/24 08:36	09/03/24 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/03/24 08:36*	*09/03/24 23:03*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*09/03/24 08:36*	*09/03/24 23:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/03/24 23:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/05/24 04:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/03/24 10:56	09/05/24 04:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		09/03/24 10:56	09/05/24 04:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 10:56	09/05/24 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*09/03/24 10:56*	*09/05/24 04:34*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 04:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.8**		5.00		mg/Kg			09/05/24 05:27	1

Client Sample ID: BH24-28

Lab Sample ID: 890-7066-37
Matrix: Solid
Date Collected: 08/28/24 11:12
Date Received: 08/30/24 08:50
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 23:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 23:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 23:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:36	09/03/24 23:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:36	09/03/24 23:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:36	09/03/24 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*09/03/24 08:36*	*09/03/24 23:24*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-28
Date Collected: 08/28/24 11:12
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-37
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/03/24 08:36*	*09/03/24 23:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/03/24 23:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/05/24 04:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		09/03/24 10:56	09/05/24 04:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		09/03/24 10:56	09/05/24 04:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/03/24 10:56	09/05/24 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 04:50*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 04:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.8**		4.96	mg/Kg			09/05/24 05:35	1

Client Sample ID: BH24-28
Date Collected: 08/28/24 11:15
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-38
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/03/24 08:36	09/03/24 23:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/03/24 08:36	09/03/24 23:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/03/24 08:36	09/03/24 23:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/03/24 08:36	09/03/24 23:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/03/24 08:36	09/03/24 23:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/03/24 08:36	09/03/24 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*09/03/24 08:36*	*09/03/24 23:45*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*09/03/24 08:36*	*09/03/24 23:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/03/24 23:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/05/24 05:06	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-28
Date Collected: 08/28/24 11:15
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-38
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/03/24 10:56	09/05/24 05:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		09/03/24 10:56	09/05/24 05:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 10:56	09/05/24 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*09/03/24 10:56*	*09/05/24 05:06*	*1*
o-Terphenyl	*98*		*70 - 130*	*09/03/24 10:56*	*09/05/24 05:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.59**		5.04		mg/Kg			09/05/24 06:00	1

Client Sample ID: BH24-28
Date Collected: 08/28/24 11:18
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-39
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/04/24 00:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/04/24 00:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/04/24 00:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/03/24 08:36	09/04/24 00:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/04/24 00:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/03/24 08:36	09/04/24 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/03/24 08:36*	*09/04/24 00:05*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*09/03/24 08:36*	*09/04/24 00:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/04/24 00:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/05/24 05:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/03/24 10:56	09/05/24 05:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		09/03/24 10:56	09/05/24 05:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 10:56	09/05/24 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 05:22*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*09/03/24 10:56*	*09/05/24 05:22*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-28
Lab Sample ID: 890-7066-39
Date Collected: 08/28/24 11:18
Matrix: Solid
Date Received: 08/30/24 08:50
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.20		4.98		mg/Kg			09/05/24 06:08	1

Client Sample ID: BH24-29
Lab Sample ID: 890-7066-40
Date Collected: 08/28/24 11:21
Matrix: Solid
Date Received: 08/30/24 08:50
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/04/24 00:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/04/24 00:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/04/24 00:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:36	09/04/24 00:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:36	09/04/24 00:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:36	09/04/24 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*09/03/24 08:36*	*09/04/24 00:26*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/03/24 08:36*	*09/04/24 00:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/04/24 00:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/05/24 05:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		09/03/24 10:56	09/05/24 05:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		09/03/24 10:56	09/05/24 05:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:56	09/05/24 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*09/03/24 10:56*	*09/05/24 05:38*	*1*
o-Terphenyl	*130*		*70 - 130*	*09/03/24 10:56*	*09/05/24 05:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.2		5.02		mg/Kg			09/05/24 06:32	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-29
Date Collected: 08/28/24 11:24
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-41
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 00:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 00:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 00:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/03/24 08:39	09/04/24 00:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 00:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/03/24 08:39	09/04/24 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/03/24 08:39*	*09/04/24 00:46*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/03/24 08:39*	*09/04/24 00:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/04/24 00:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/04/24 23:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/04/24 23:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/04/24 23:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/04/24 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*09/03/24 10:58*	*09/04/24 23:47*	*1*
o-Terphenyl	*109*		*70 - 130*	*09/03/24 10:58*	*09/04/24 23:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.0**		4.97		mg/Kg			09/05/24 06:40	1

Client Sample ID: BH24-29
Date Collected: 08/28/24 11:27
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-42
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 01:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 01:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 01:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:39	09/04/24 01:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 01:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:39	09/04/24 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/03/24 08:39*	*09/04/24 01:07*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-29

Lab Sample ID: 890-7066-42
Matrix: Solid
Date Collected: 08/28/24 11:27
Date Received: 08/30/24 08:50
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/03/24 08:39*	*09/04/24 01:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/04/24 01:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			09/05/24 00:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		09/03/24 10:58	09/05/24 00:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		09/03/24 10:58	09/05/24 00:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		09/03/24 10:58	09/05/24 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*09/03/24 10:58*	*09/05/24 00:30*	*1*
o-Terphenyl	*102*		*70 - 130*	*09/03/24 10:58*	*09/05/24 00:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.0**		4.97	mg/Kg			09/05/24 06:49	1

Client Sample ID: BH24-30

Lab Sample ID: 890-7066-43
Matrix: Solid
Date Collected: 08/28/24 11:34
Date Received: 08/30/24 08:50
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:39	09/04/24 01:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:39	09/04/24 01:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:39	09/04/24 01:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/03/24 08:39	09/04/24 01:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:39	09/04/24 01:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/03/24 08:39	09/04/24 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/03/24 08:39*	*09/04/24 01:27*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*09/03/24 08:39*	*09/04/24 01:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/04/24 01:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/05/24 00:45	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-30
Date Collected: 08/28/24 11:34
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-43
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 00:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 00:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*09/03/24 10:58*	*09/05/24 00:45*	*1*
o-Terphenyl	*83*		*70 - 130*	*09/03/24 10:58*	*09/05/24 00:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			09/05/24 06:57	1

Client Sample ID: BH24-30
Date Collected: 08/28/24 11:37
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-44
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 01:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 01:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 01:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/03/24 08:39	09/04/24 01:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 01:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/03/24 08:39	09/04/24 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/03/24 08:39*	*09/04/24 01:48*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/03/24 08:39*	*09/04/24 01:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/04/24 01:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/05/24 00:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 00:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 00:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*09/03/24 10:58*	*09/05/24 00:59*	*1*
o-Terphenyl	*99*		*70 - 130*	*09/03/24 10:58*	*09/05/24 00:59*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-30
Date Collected: 08/28/24 11:37
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-44
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.2**		5.02		mg/Kg			09/05/24 07:05	1

Client Sample ID: BH24-30
Date Collected: 08/28/24 11:41
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-45
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 02:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 02:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 02:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:39	09/04/24 02:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 02:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:39	09/04/24 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/03/24 08:39*	*09/04/24 02:08*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/03/24 08:39*	*09/04/24 02:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/04/24 02:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.8**		49.9		mg/Kg			09/05/24 01:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/05/24 01:13	1
Diesel Range Organics (Over C10-C28)	**55.8**		49.9		mg/Kg		09/03/24 10:58	09/05/24 01:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/05/24 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*09/03/24 10:58*	*09/05/24 01:13*	*1*
o-Terphenyl	*98*		*70 - 130*	*09/03/24 10:58*	*09/05/24 01:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.1**		4.98		mg/Kg			09/05/24 07:13	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-31

Lab Sample ID: 890-7066-46
Matrix: Solid
Date Collected: 08/28/24 11:49
Date Received: 08/30/24 08:50
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 02:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 02:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 02:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:39	09/04/24 02:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 02:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:39	09/04/24 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*09/03/24 08:39*	*09/04/24 02:28*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/03/24 08:39*	*09/04/24 02:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/04/24 02:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/05/24 01:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 01:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 01:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*09/03/24 10:58*	*09/05/24 01:27*	*1*
o-Terphenyl	*105*		*70 - 130*	*09/03/24 10:58*	*09/05/24 01:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.15**		4.96		mg/Kg			09/05/24 07:21	1

Client Sample ID: BH24-31

Lab Sample ID: 890-7066-47
Matrix: Solid
Date Collected: 08/28/24 11:53
Date Received: 08/30/24 08:50
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 02:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 02:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 02:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:39	09/04/24 02:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 02:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:39	09/04/24 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*09/03/24 08:39*	*09/04/24 02:49*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-31
Date Collected: 08/28/24 11:53
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-47
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/03/24 08:39*	*09/04/24 02:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/04/24 02:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/05/24 01:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/03/24 10:58	09/05/24 01:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/03/24 10:58	09/05/24 01:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/03/24 10:58	09/05/24 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*09/03/24 10:58*	*09/05/24 01:40*	*1*
o-Terphenyl	*97*		*70 - 130*	*09/03/24 10:58*	*09/05/24 01:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.17**		5.04	mg/Kg			09/05/24 04:42	1

Client Sample ID: BH24-31
Date Collected: 08/28/24 11:57
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-48
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/03/24 08:39	09/04/24 03:09	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/03/24 08:39	09/04/24 03:09	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/03/24 08:39	09/04/24 03:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/03/24 08:39	09/04/24 03:09	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/03/24 08:39	09/04/24 03:09	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/03/24 08:39	09/04/24 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*09/03/24 08:39*	*09/04/24 03:09*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/03/24 08:39*	*09/04/24 03:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			09/04/24 03:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/05/24 01:55	1

Eurofins Carlsbad

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-31
Date Collected: 08/28/24 11:57
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-48
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 01:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 01:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*09/03/24 10:58*	*09/05/24 01:55*	*1*
o-Terphenyl	*92*		*70 - 130*	*09/03/24 10:58*	*09/05/24 01:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			09/05/24 05:09	1

Client Sample ID: BH24-32
Date Collected: 08/28/24 12:10
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-49
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 03:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 03:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 03:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/03/24 08:39	09/04/24 03:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 03:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/03/24 08:39	09/04/24 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*09/03/24 08:39*	*09/04/24 03:30*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/03/24 08:39*	*09/04/24 03:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/04/24 03:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/05/24 02:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 02:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 02:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*09/03/24 10:58*	*09/05/24 02:09*	*1*
o-Terphenyl	*99*		*70 - 130*	*09/03/24 10:58*	*09/05/24 02:09*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-32
Date Collected: 08/28/24 12:10
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-49
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.3		4.96		mg/Kg			09/05/24 05:17	1

Client Sample ID: BH24-32
Date Collected: 08/28/24 12:14
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-50
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 03:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 03:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 03:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:39	09/04/24 03:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 03:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:39	09/04/24 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/03/24 08:39*	*09/04/24 03:50*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/03/24 08:39*	*09/04/24 03:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/04/24 03:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/05/24 02:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 02:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 02:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 02:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*09/03/24 10:58*	*09/05/24 02:25*	*1*
o-Terphenyl	*89*		*70 - 130*	*09/03/24 10:58*	*09/05/24 02:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.3		5.02		mg/Kg			09/05/24 05:26	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-32

Lab Sample ID: 890-7066-51
Matrix: Solid
Date Collected: 08/28/24 12:19
Date Received: 08/30/24 08:50
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:39	09/04/24 05:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:39	09/04/24 05:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:39	09/04/24 05:40	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/03/24 08:39	09/04/24 05:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:39	09/04/24 05:40	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/03/24 08:39	09/04/24 05:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/03/24 08:39*	*09/04/24 05:40*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/03/24 08:39*	*09/04/24 05:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/04/24 05:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/05/24 02:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 02:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 02:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*09/03/24 10:58*	*09/05/24 02:55*	*1*
o-Terphenyl	*91*		*70 - 130*	*09/03/24 10:58*	*09/05/24 02:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.80**		4.98		mg/Kg			09/05/24 05:35	1

Client Sample ID: BH24-33

Lab Sample ID: 890-7066-52
Matrix: Solid
Date Collected: 08/28/24 12:24
Date Received: 08/30/24 08:50
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 06:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 06:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 06:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/03/24 08:39	09/04/24 06:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 06:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/03/24 08:39	09/04/24 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*09/03/24 08:39*	*09/04/24 06:01*	*1*

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-33
Date Collected: 08/28/24 12:24
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-52
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/03/24 08:39*	*09/04/24 06:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/04/24 06:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/05/24 03:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/03/24 10:58	09/05/24 03:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/03/24 10:58	09/05/24 03:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/03/24 10:58	09/05/24 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*09/03/24 10:58*	*09/05/24 03:08*	*1*
o-Terphenyl	*95*		*70 - 130*	*09/03/24 10:58*	*09/05/24 03:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.70**		5.02	mg/Kg			09/05/24 06:02	1

Client Sample ID: BH24-33
Date Collected: 08/28/24 12:27
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-53
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/03/24 08:39	09/04/24 06:21	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/03/24 08:39	09/04/24 06:21	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/03/24 08:39	09/04/24 06:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/03/24 08:39	09/04/24 06:21	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/03/24 08:39	09/04/24 06:21	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/03/24 08:39	09/04/24 06:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/03/24 08:39*	*09/04/24 06:21*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*09/03/24 08:39*	*09/04/24 06:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/04/24 06:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/05/24 03:24	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-33
Date Collected: 08/28/24 12:27
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-53
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 03:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 03:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 10:58	09/05/24 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*09/03/24 10:58*	*09/05/24 03:24*	*1*
o-Terphenyl	*91*		*70 - 130*	*09/03/24 10:58*	*09/05/24 03:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.49**		4.97		mg/Kg			09/05/24 06:11	1

Client Sample ID: BH24-33
Date Collected: 08/28/24 12:33
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-54
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 06:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 06:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 06:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:39	09/04/24 06:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 06:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:39	09/04/24 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*09/03/24 08:39*	*09/04/24 06:42*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*09/03/24 08:39*	*09/04/24 06:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/04/24 06:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/05/24 03:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/05/24 03:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/05/24 03:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/05/24 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*09/03/24 10:58*	*09/05/24 03:37*	*1*
o-Terphenyl	*86*		*70 - 130*	*09/03/24 10:58*	*09/05/24 03:37*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-33
Date Collected: 08/28/24 12:33
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-54
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.70		4.96		mg/Kg			09/05/24 06:19	1

Client Sample ID: BH24-34
Date Collected: 08/28/24 12:37
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-55
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 07:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 07:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 07:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:39	09/04/24 07:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 07:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:39	09/04/24 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*09/03/24 08:39*	*09/04/24 07:02*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/03/24 08:39*	*09/04/24 07:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/04/24 07:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/05/24 03:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 03:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 03:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*09/03/24 10:58*	*09/05/24 03:52*	*1*
o-Terphenyl	*94*		*70 - 130*	*09/03/24 10:58*	*09/05/24 03:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.06		5.05		mg/Kg			09/05/24 06:28	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-34
Date Collected: 08/28/24 12:42
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-56
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:39	09/04/24 07:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:39	09/04/24 07:23	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:39	09/04/24 07:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/03/24 08:39	09/04/24 07:23	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/03/24 08:39	09/04/24 07:23	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/03/24 08:39	09/04/24 07:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/03/24 08:39*	*09/04/24 07:23*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/03/24 08:39*	*09/04/24 07:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/04/24 07:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/05/24 04:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 04:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 04:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*09/03/24 10:58*	*09/05/24 04:06*	*1*
o-Terphenyl	*94*		*70 - 130*	*09/03/24 10:58*	*09/05/24 04:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			09/05/24 06:37	1

Client Sample ID: BH24-34
Date Collected: 08/28/24 12:47
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-57
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 07:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 07:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 07:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:39	09/04/24 07:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:39	09/04/24 07:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:39	09/04/24 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*09/03/24 08:39*	*09/04/24 07:43*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-34

Lab Sample ID: 890-7066-57
Matrix: Solid
Date Collected: 08/28/24 12:47
Date Received: 08/30/24 08:50
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*09/03/24 08:39*	*09/04/24 07:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/04/24 07:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/05/24 04:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/03/24 10:58	09/05/24 04:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/03/24 10:58	09/05/24 04:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/03/24 10:58	09/05/24 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*09/03/24 10:58*	*09/05/24 04:21*	*1*
o-Terphenyl	*103*		*70 - 130*	*09/03/24 10:58*	*09/05/24 04:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			09/05/24 06:46	1

Client Sample ID: BH24-35

Lab Sample ID: 890-7066-58
Matrix: Solid
Date Collected: 08/28/24 12:53
Date Received: 08/30/24 08:50
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/03/24 08:39	09/04/24 08:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/03/24 08:39	09/04/24 08:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/03/24 08:39	09/04/24 08:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/03/24 08:39	09/04/24 08:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/03/24 08:39	09/04/24 08:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/03/24 08:39	09/04/24 08:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*09/03/24 08:39*	*09/04/24 08:03*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*09/03/24 08:39*	*09/04/24 08:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/04/24 08:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/05/24 04:34	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-35
Date Collected: 08/28/24 12:53
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-58
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 04:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 04:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/05/24 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*09/03/24 10:58*	*09/05/24 04:34*	*1*
o-Terphenyl	*95*		*70 - 130*	*09/03/24 10:58*	*09/05/24 04:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**191**		4.96		mg/Kg			09/05/24 07:12	1

Client Sample ID: BH24-35
Date Collected: 08/28/24 12:58
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-59
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 08:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 08:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 08:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/03/24 08:39	09/04/24 08:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 08:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/03/24 08:39	09/04/24 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*09/03/24 08:39*	*09/04/24 08:24*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/03/24 08:39*	*09/04/24 08:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/04/24 08:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/05/24 04:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/05/24 04:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/05/24 04:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/05/24 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*09/03/24 10:58*	*09/05/24 04:49*	*1*
o-Terphenyl	*104*		*70 - 130*	*09/03/24 10:58*	*09/05/24 04:49*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-35
Date Collected: 08/28/24 12:58
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-59
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	594		5.05		mg/Kg			09/05/24 07:21	1

Client Sample ID: BH24-35
Date Collected: 08/28/24 01:04
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-60
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 08:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 08:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 08:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:39	09/04/24 08:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:39	09/04/24 08:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:39	09/04/24 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*09/03/24 08:39*	*09/04/24 08:44*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/03/24 08:39*	*09/04/24 08:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/04/24 08:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/05/24 05:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/05/24 05:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/05/24 05:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 10:58	09/05/24 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*09/03/24 10:58*	*09/05/24 05:03*	*1*
o-Terphenyl	*92*		*70 - 130*	*09/03/24 10:58*	*09/05/24 05:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.78		4.98		mg/Kg			09/05/24 07:48	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-36

Lab Sample ID: 890-7066-61
Matrix: Solid
Date Collected: 08/28/24 01:09
Date Received: 08/30/24 08:50
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:45	09/03/24 13:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:45	09/03/24 13:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:45	09/03/24 13:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/03/24 08:45	09/03/24 13:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:45	09/03/24 13:09	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/03/24 08:45	09/03/24 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/03/24 08:45*	*09/03/24 13:09*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/03/24 08:45*	*09/03/24 13:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/03/24 13:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/04/24 16:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/03/24 15:58	09/04/24 16:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/03/24 15:58	09/04/24 16:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 15:58	09/04/24 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*09/03/24 15:58*	*09/04/24 16:52*	*1*
o-Terphenyl	*90*		*70 - 130*	*09/03/24 15:58*	*09/04/24 16:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**215**		5.02		mg/Kg			09/05/24 07:57	1

Client Sample ID: BH24-36

Lab Sample ID: 890-7066-62
Matrix: Solid
Date Collected: 08/28/24 01:14
Date Received: 08/30/24 08:50
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:45	09/03/24 13:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:45	09/03/24 13:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:45	09/03/24 13:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/03/24 08:45	09/03/24 13:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/03/24 08:45	09/03/24 13:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/03/24 08:45	09/03/24 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*09/03/24 08:45*	*09/03/24 13:30*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-36
Date Collected: 08/28/24 01:14
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-62
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/03/24 08:45*	*09/03/24 13:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/03/24 13:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/04/24 17:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/03/24 15:58	09/04/24 17:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/03/24 15:58	09/04/24 17:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/03/24 15:58	09/04/24 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*09/03/24 15:58*	*09/04/24 17:35*	*1*
o-Terphenyl	*86*		*70 - 130*	*09/03/24 15:58*	*09/04/24 17:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.0**		4.97	mg/Kg			09/05/24 08:06	1

Client Sample ID: BH24-36
Date Collected: 08/28/24 01:19
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-63
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:45	09/03/24 13:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:45	09/03/24 13:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:45	09/03/24 13:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/03/24 08:45	09/03/24 13:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/03/24 08:45	09/03/24 13:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/03/24 08:45	09/03/24 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/03/24 08:45*	*09/03/24 13:50*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/03/24 08:45*	*09/03/24 13:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/03/24 13:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/04/24 17:49	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-36

Lab Sample ID: 890-7066-63
Matrix: Solid
Date Collected: 08/28/24 01:19
Date Received: 08/30/24 08:50
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/03/24 15:58	09/04/24 17:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/03/24 15:58	09/04/24 17:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/03/24 15:58	09/04/24 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*09/03/24 15:58*	*09/04/24 17:49*	*1*
o-Terphenyl	*89*		*70 - 130*	*09/03/24 15:58*	*09/04/24 17:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.48**		4.97		mg/Kg			09/05/24 08:14	1

Client Sample ID: BH24-37

Lab Sample ID: 890-7066-64
Matrix: Solid
Date Collected: 08/28/24 01:25
Date Received: 08/30/24 08:50
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:45	09/03/24 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:45	09/03/24 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:45	09/03/24 14:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/03/24 08:45	09/03/24 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:45	09/03/24 14:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/03/24 08:45	09/03/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/03/24 08:45*	*09/03/24 14:10*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/03/24 08:45*	*09/03/24 14:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/03/24 14:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/04/24 18:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 15:58	09/04/24 18:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 15:58	09/04/24 18:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 15:58	09/04/24 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*09/03/24 15:58*	*09/04/24 18:03*	*1*
o-Terphenyl	*103*		*70 - 130*	*09/03/24 15:58*	*09/04/24 18:03*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-37
Date Collected: 08/28/24 01:25
Date Received: 08/30/24 08:50
Sample Depth: 1

Lab Sample ID: 890-7066-64
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4970		101		mg/Kg			09/05/24 08:23	20

Client Sample ID: BH24-37
Date Collected: 08/28/24 01:35
Date Received: 08/30/24 08:50
Sample Depth: 3

Lab Sample ID: 890-7066-65
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:45	09/03/24 14:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:45	09/03/24 14:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:45	09/03/24 14:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:45	09/03/24 14:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:45	09/03/24 14:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:45	09/03/24 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*09/03/24 08:45*	*09/03/24 14:31*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/03/24 08:45*	*09/03/24 14:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/03/24 14:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/04/24 18:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 15:58	09/04/24 18:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 15:58	09/04/24 18:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 15:58	09/04/24 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*09/03/24 15:58*	*09/04/24 18:17*	*1*
o-Terphenyl	*92*		*70 - 130*	*09/03/24 15:58*	*09/04/24 18:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4400		99.6		mg/Kg			09/05/24 08:32	20

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-37

Date Collected: 08/28/24 01:40
Date Received: 08/30/24 08:50
Sample Depth: 4

Lab Sample ID: 890-7066-66

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:45	09/03/24 14:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:45	09/03/24 14:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:45	09/03/24 14:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/03/24 08:45	09/03/24 14:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/03/24 08:45	09/03/24 14:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/03/24 08:45	09/03/24 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*09/03/24 08:45*	*09/03/24 14:51*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/03/24 08:45*	*09/03/24 14:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/03/24 14:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/04/24 18:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/03/24 15:58	09/04/24 18:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/03/24 15:58	09/04/24 18:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/03/24 15:58	09/04/24 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*09/03/24 15:58*	*09/04/24 18:32*	*1*
o-Terphenyl	*95*		*70 - 130*	*09/03/24 15:58*	*09/04/24 18:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.06**		4.96		mg/Kg			09/05/24 08:41	1

Surrogate Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-7066-1	BH24-16	105	84										
890-7066-1 MS	BH24-16	92	103										
890-7066-1 MSD	BH24-16	77	76										
890-7066-2	BH24-16	99	85										
890-7066-3	BH24-16	99	86										
890-7066-4	BH24-17	100	98										
890-7066-5	BH24-17	96	99										
890-7066-6	BH24-17	106	83										
890-7066-7	BH24-18	103	96										
890-7066-8	BH24-18	101	87										
890-7066-9	BH24-18	103	102										
890-7066-10	BH24-19	100	89										
890-7066-11	BH24-19	95	81										
890-7066-12	BH24-19	98	90										
890-7066-13	BH24-20	116	101										
890-7066-14	BH24-20	105	90										
890-7066-15	BH24-20	112	91										
890-7066-16	BH24-21	96	98										
890-7066-17	BH24-21	100	92										
890-7066-18	BH24-21	98	100										
890-7066-19	BH24-22	98	88										
890-7066-20	BH24-22	115	87										
890-7066-21	BH24-22	80	94										
890-7066-21 MS	BH24-22	104	115										
890-7066-21 MSD	BH24-22	105	90										
890-7066-22	BH24-23	83	92										
890-7066-23	BH24-23	83	95										
890-7066-24	BH24-23	84	93										
890-7066-25	BH24-24	81	94										
890-7066-26	BH24-24	89	94										
890-7066-27	BH24-24	83	92										
890-7066-28	BH24-25	84	93										
890-7066-29	BH24-25	80	89										
890-7066-30	BH24-25	82	91										
890-7066-31	BH24-26	82	91										
890-7066-32	BH24-26	84	90										
890-7066-33	BH24-26	82	88										
890-7066-34	BH24-27	84	92										
890-7066-35	BH24-27	87	91										
890-7066-36	BH24-27	88	83										
890-7066-37	BH24-28	85	90										
890-7066-38	BH24-28	82	87										
890-7066-39	BH24-28	95	76										
890-7066-40	BH24-29	85	91										
890-7066-41	BH24-29	90	97										
890-7066-41 MS	BH24-29	110	93										
890-7066-41 MSD	BH24-29	114	93										
890-7066-42	BH24-29	103	104										
890-7066-43	BH24-30	111	111										

Surrogate Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7066-44	BH24-30	107	104
890-7066-45	BH24-30	109	101
890-7066-46	BH24-31	114	106
890-7066-47	BH24-31	117	108
890-7066-48	BH24-31	123	105
890-7066-49	BH24-32	115	103
890-7066-50	BH24-32	111	108
890-7066-51	BH24-32	89	103
890-7066-52	BH24-33	121	114
890-7066-53	BH24-33	113	109
890-7066-54	BH24-33	119	115
890-7066-55	BH24-34	123	105
890-7066-56	BH24-34	105	105
890-7066-57	BH24-34	122	118
890-7066-58	BH24-35	121	116
890-7066-59	BH24-35	125	117
890-7066-60	BH24-35	124	112
890-7066-61	BH24-36	97	110
890-7066-61 MS	BH24-36	100	101
890-7066-61 MSD	BH24-36	109	102
890-7066-62	BH24-36	127	117
890-7066-63	BH24-36	108	110
890-7066-64	BH24-37	109	112
890-7066-65	BH24-37	126	114
890-7066-66	BH24-37	117	114
LCS 880-89901/1-A	Lab Control Sample	86	84
LCS 880-89902/1-A	Lab Control Sample	106	108
LCS 880-89903/1-A	Lab Control Sample	100	89
LCS 880-89909/1-A	Lab Control Sample	109	108
LCSD 880-89901/2-A	Lab Control Sample Dup	75	89
LCSD 880-89902/2-A	Lab Control Sample Dup	103	119
LCSD 880-89903/2-A	Lab Control Sample Dup	113	99
LCSD 880-89909/2-A	Lab Control Sample Dup	115	105
MB 880-89901/5-A	Method Blank	63 S1-	90
MB 880-89902/5-A	Method Blank	70	98
MB 880-89903/5-A	Method Blank	198 S1+	130
MB 880-89909/5-A	Method Blank	144 S1+	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7066-1	BH24-16	137 S1+	133 S1+
890-7066-1 MS	BH24-16	117	118
890-7066-1 MSD	BH24-16	149 S1+	117

Surrogate Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-7066-2	BH24-16	153 S1+	139 S1+										
890-7066-3	BH24-16	150 S1+	143 S1+										
890-7066-4	BH24-17	147 S1+	286 S1+										
890-7066-5	BH24-17	153 S1+	147 S1+										
890-7066-6	BH24-17	153 S1+	140 S1+										
890-7066-7	BH24-18	142 S1+	134 S1+										
890-7066-8	BH24-18	148 S1+	137 S1+										
890-7066-9	BH24-18	152 S1+	140 S1+										
890-7066-10	BH24-19	139 S1+	132 S1+										
890-7066-11	BH24-19	125	113										
890-7066-12	BH24-19	136 S1+	129										
890-7066-13	BH24-20	155 S1+	146 S1+										
890-7066-14	BH24-20	146 S1+	135 S1+										
890-7066-15	BH24-20	138 S1+	123										
890-7066-16	BH24-21	133 S1+	124										
890-7066-17	BH24-21	148 S1+	140 S1+										
890-7066-18	BH24-21	168 S1+	151 S1+										
890-7066-19	BH24-22	137 S1+	126										
890-7066-20	BH24-22	147 S1+	131 S1+										
890-7066-21	BH24-22	124	128										
890-7066-21 MS	BH24-22	117	131 S1+										
890-7066-21 MSD	BH24-22	117	132 S1+										
890-7066-22	BH24-23	116	118										
890-7066-23	BH24-23	131 S1+	131 S1+										
890-7066-24	BH24-23	129	131 S1+										
890-7066-25	BH24-24	118	121										
890-7066-26	BH24-24	121	123										
890-7066-27	BH24-24	117	118										
890-7066-28	BH24-25	130	132 S1+										
890-7066-29	BH24-25	140 S1+	143 S1+										
890-7066-30	BH24-25	132 S1+	134 S1+										
890-7066-31	BH24-26	116	118										
890-7066-32	BH24-26	118	120										
890-7066-33	BH24-26	130	134 S1+										
890-7066-34	BH24-27	119	121										
890-7066-35	BH24-27	121	129										
890-7066-36	BH24-27	124	136 S1+										
890-7066-37	BH24-28	137 S1+	141 S1+										
890-7066-38	BH24-28	95	98										
890-7066-39	BH24-28	136 S1+	139 S1+										
890-7066-40	BH24-29	125	130										
890-7066-41	BH24-29	94	109										
890-7066-41 MS	BH24-29	93	95										
890-7066-41 MSD	BH24-29	92	91										
890-7066-42	BH24-29	88	102										
890-7066-43	BH24-30	74	83										
890-7066-44	BH24-30	87	99										
890-7066-45	BH24-30	84	98										
890-7066-46	BH24-31	92	105										
890-7066-47	BH24-31	85	97										

Surrogate Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-7066-48	BH24-31	81	92								
890-7066-49	BH24-32	90	99								
890-7066-50	BH24-32	82	89								
890-7066-51	BH24-32	81	91								
890-7066-52	BH24-33	83	95								
890-7066-53	BH24-33	81	91								
890-7066-54	BH24-33	76	86								
890-7066-55	BH24-34	82	94								
890-7066-56	BH24-34	83	94								
890-7066-57	BH24-34	92	103								
890-7066-58	BH24-35	85	95								
890-7066-59	BH24-35	92	104								
890-7066-60	BH24-35	82	92								
890-7066-61	BH24-36	84	90								
890-7066-61 MS	BH24-36	90	87								
890-7066-61 MSD	BH24-36	91	89								
890-7066-62	BH24-36	81	86								
890-7066-63	BH24-36	82	89								
890-7066-64	BH24-37	93	103								
890-7066-65	BH24-37	83	92								
890-7066-66	BH24-37	85	95								
LCS 880-89938/2-A	Lab Control Sample	111	112								
LCS 880-89939/2-A	Lab Control Sample	117	130								
LCS 880-89940/2-A	Lab Control Sample	97	100								
LCS 880-89988/2-A	Lab Control Sample	110	123								
LCSD 880-89938/3-A	Lab Control Sample Dup	107	109								
LCSD 880-89939/3-A	Lab Control Sample Dup	123	139 S1+								
LCSD 880-89940/3-A	Lab Control Sample Dup	96	100								
LCSD 880-89988/3-A	Lab Control Sample Dup	94	103								
MB 880-89938/1-A	Method Blank	86	78								
MB 880-89939/1-A	Method Blank	91	92								
MB 880-89940/1-A	Method Blank	65 S1-	73								
MB 880-89988/1-A	Method Blank	77	88								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-89901/5-A
Matrix: Solid
Analysis Batch: 89911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89901

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 14:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 14:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 14:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/03/24 08:34	09/03/24 14:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:34	09/03/24 14:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/03/24 08:34	09/03/24 14:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*09/03/24 08:34*	*09/03/24 14:19*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/03/24 08:34*	*09/03/24 14:19*	*1*

Lab Sample ID: LCS 880-89901/1-A
Matrix: Solid
Analysis Batch: 89911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89901

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1241		mg/Kg		124	70 - 130		
Toluene			0.100	0.1208		mg/Kg		121	70 - 130		
Ethylbenzene			0.100	0.1269		mg/Kg		127	70 - 130		
m-Xylene & p-Xylene			0.200	0.2423		mg/Kg		121	70 - 130		
o-Xylene			0.100	0.1189		mg/Kg		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: LCSD 880-89901/2-A
Matrix: Solid
Analysis Batch: 89911

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89901

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1243		mg/Kg		124	70 - 130	0	35
Toluene			0.100	0.1186		mg/Kg		119	70 - 130	2	35
Ethylbenzene			0.100	0.1259		mg/Kg		126	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2414		mg/Kg		121	70 - 130	0	35
o-Xylene			0.100	0.1191		mg/Kg		119	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 890-7066-1 MS
Matrix: Solid
Analysis Batch: 89911

Client Sample ID: BH24-16
Prep Type: Total/NA
Prep Batch: 89901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0996	0.1122		mg/Kg		113	70 - 130		
Toluene	<0.00200	U	0.0996	0.1120		mg/Kg		112	70 - 130		

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Lab Sample ID: 890-7066-1 MS
Matrix: Solid
Analysis Batch: 89911

Client Sample ID: BH24-16
Prep Type: Total/NA
Prep Batch: 89901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0996	0.1200		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2285		mg/Kg		115	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1120		mg/Kg		112	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-7066-1 MSD
Matrix: Solid
Analysis Batch: 89911

Client Sample ID: BH24-16
Prep Type: Total/NA
Prep Batch: 89901

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1142		mg/Kg		115	70 - 130	2	35
Toluene	<0.00200	U	0.0990	0.1121		mg/Kg		113	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0990	0.1165		mg/Kg		118	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2233		mg/Kg		113	70 - 130	2	35
o-Xylene	<0.00200	U	0.0990	0.1120		mg/Kg		113	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*

Lab Sample ID: MB 880-89902/5-A
Matrix: Solid
Analysis Batch: 89978

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89902

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 16:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 16:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 16:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/03/24 08:36	09/03/24 16:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:36	09/03/24 16:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/03/24 08:36	09/03/24 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*09/03/24 08:36*	*09/03/24 16:29*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/03/24 08:36*	*09/03/24 16:29*	*1*

Lab Sample ID: LCS 880-89902/1-A
Matrix: Solid
Analysis Batch: 89978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1129		mg/Kg		113	70 - 130
Toluene	0.100	0.1021		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1250		mg/Kg		125	70 - 130
m-Xylene & p-Xylene	0.200	0.2455		mg/Kg		123	70 - 130

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Lab Sample ID: LCS 880-89902/1-A
Matrix: Solid
Analysis Batch: 89978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89902

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1195		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-89902/2-A
Matrix: Solid
Analysis Batch: 89978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89902

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1118		mg/Kg		112	70 - 130	1	35
Toluene			0.100	0.1103		mg/Kg		110	70 - 130	8	35
Ethylbenzene			0.100	0.1220		mg/Kg		122	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2378		mg/Kg		119	70 - 130	3	35
o-Xylene			0.100	0.1168		mg/Kg		117	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Lab Sample ID: 890-7066-21 MS
Matrix: Solid
Analysis Batch: 89978

Client Sample ID: BH24-22
Prep Type: Total/NA
Prep Batch: 89902

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0996	0.08993		mg/Kg		90	70 - 130		
Toluene	<0.00200	U	0.0996	0.09051		mg/Kg		91	70 - 130		
Ethylbenzene	<0.00200	U	0.0996	0.09758		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1916		mg/Kg		96	70 - 130		
o-Xylene	<0.00200	U	0.0996	0.09496		mg/Kg		95	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 890-7066-21 MSD
Matrix: Solid
Analysis Batch: 89978

Client Sample ID: BH24-22
Prep Type: Total/NA
Prep Batch: 89902

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.09541		mg/Kg		96	70 - 130	6	35
Toluene	<0.00200	U	0.0990	0.1010		mg/Kg		102	70 - 130	11	35
Ethylbenzene	<0.00200	U	0.0990	0.1073		mg/Kg		108	70 - 130	9	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2074		mg/Kg		105	70 - 130	8	35
o-Xylene	<0.00200	U	0.0990	0.1016		mg/Kg		103	70 - 130	7	35

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Lab Sample ID: 890-7066-21 MSD
Matrix: Solid
Analysis Batch: 89978

Client Sample ID: BH24-22
Prep Type: Total/NA
Prep Batch: 89902

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: MB 880-89903/5-A
Matrix: Solid
Analysis Batch: 89913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89903

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 00:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 00:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 00:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/03/24 08:39	09/04/24 00:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:39	09/04/24 00:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/03/24 08:39	09/04/24 00:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	198	S1+	70 - 130	09/03/24 08:39	09/04/24 00:18	1
1,4-Difluorobenzene (Surr)	130		70 - 130	09/03/24 08:39	09/04/24 00:18	1

Lab Sample ID: LCS 880-89903/1-A
Matrix: Solid
Analysis Batch: 89913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89903

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08191		mg/Kg		82	70 - 130		
Toluene			0.100	0.08803		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.09586		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene			0.200	0.1489		mg/Kg		74	70 - 130		
o-Xylene			0.100	0.07795		mg/Kg		78	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-89903/2-A
Matrix: Solid
Analysis Batch: 89913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89903

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08772		mg/Kg		88	70 - 130	7	35
Toluene			0.100	0.09331		mg/Kg		93	70 - 130	6	35
Ethylbenzene			0.100	0.09444		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1528		mg/Kg		76	70 - 130	3	35
o-Xylene			0.100	0.08650		mg/Kg		87	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Lab Sample ID: LCSD 880-89903/2-A
Matrix: Solid
Analysis Batch: 89913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89903

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

Lab Sample ID: 890-7066-41 MS
Matrix: Solid
Analysis Batch: 89913

Client Sample ID: BH24-29
Prep Type: Total/NA
Prep Batch: 89903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.08287		mg/Kg		83	70 - 130
Toluene	<0.00200	U	0.0996	0.09081		mg/Kg		91	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.09621		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1654		mg/Kg		83	70 - 130
o-Xylene	<0.00200	U	0.0996	0.07794		mg/Kg		78	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-7066-41 MSD
Matrix: Solid
Analysis Batch: 89913

Client Sample ID: BH24-29
Prep Type: Total/NA
Prep Batch: 89903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08303		mg/Kg		84	70 - 130	0	35
Toluene	<0.00200	U	0.0990	0.08823		mg/Kg		89	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0990	0.1031		mg/Kg		104	70 - 130	7	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1787		mg/Kg		90	70 - 130	8	35
o-Xylene	<0.00200	U	0.0990	0.08854		mg/Kg		89	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-89909/5-A
Matrix: Solid
Analysis Batch: 89913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89909

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:45	09/03/24 12:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:45	09/03/24 12:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:45	09/03/24 12:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/03/24 08:45	09/03/24 12:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/03/24 08:45	09/03/24 12:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/03/24 08:45	09/03/24 12:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	09/03/24 08:45	09/03/24 12:41	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/03/24 08:45	09/03/24 12:41	1

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Lab Sample ID: LCS 880-89909/1-A
Matrix: Solid
Analysis Batch: 89913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89909

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1018		mg/Kg		102	70 - 130		
Toluene			0.100	0.1004		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.1085		mg/Kg		109	70 - 130		
m-Xylene & p-Xylene			0.200	0.2151		mg/Kg		108	70 - 130		
o-Xylene			0.100	0.1077		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-89909/2-A
Matrix: Solid
Analysis Batch: 89913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89909

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1029		mg/Kg		103	70 - 130	1	35
Toluene			0.100	0.09543		mg/Kg		95	70 - 130	5	35
Ethylbenzene			0.100	0.1135		mg/Kg		114	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2277		mg/Kg		114	70 - 130	6	35
o-Xylene			0.100	0.1162		mg/Kg		116	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-7066-61 MS
Matrix: Solid
Analysis Batch: 89913

Client Sample ID: BH24-36
Prep Type: Total/NA
Prep Batch: 89909

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0996	0.09058		mg/Kg		91	70 - 130		
Toluene	<0.00200	U	0.0996	0.09771		mg/Kg		98	70 - 130		
Ethylbenzene	<0.00200	U	0.0996	0.09309		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1904		mg/Kg		96	70 - 130		
o-Xylene	<0.00200	U	0.0996	0.09608		mg/Kg		96	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-7066-61 MSD
Matrix: Solid
Analysis Batch: 89913

Client Sample ID: BH24-36
Prep Type: Total/NA
Prep Batch: 89909

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.09680		mg/Kg		98	70 - 130	7	35
Toluene	<0.00200	U	0.0990	0.09731		mg/Kg		98	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0990	0.09918		mg/Kg		100	70 - 130	6	35

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Lab Sample ID: 890-7066-61 MSD
Matrix: Solid
Analysis Batch: 89913

Client Sample ID: BH24-36
Prep Type: Total/NA
Prep Batch: 89909

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2033		mg/Kg		103	70 - 130	7	35
o-Xylene	<0.00200	U	0.0990	0.1059		mg/Kg		107	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 880-89938/1-A
Matrix: Solid
Analysis Batch: 90175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89938

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 11:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 11:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:53	09/06/24 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*09/03/24 10:53*	*09/06/24 11:05*	*1*
o-Terphenyl	*78*		*70 - 130*	*09/03/24 10:53*	*09/06/24 11:05*	*1*

Lab Sample ID: LCS 880-89938/2-A
Matrix: Solid
Analysis Batch: 90175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89938

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1191		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1092		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: LCSD 880-89938/3-A
Matrix: Solid
Analysis Batch: 90175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89938

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1154		mg/Kg		115	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1049		mg/Kg		105	70 - 130	4	20

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Lab Sample ID: LCSD 880-89938/3-A
Matrix: Solid
Analysis Batch: 90175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89938

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 890-7066-1 MS
Matrix: Solid
Analysis Batch: 90175

Client Sample ID: BH24-16
Prep Type: Total/NA
Prep Batch: 89938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1214		mg/Kg		122	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1124		mg/Kg		113	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-7066-1 MSD
Matrix: Solid
Analysis Batch: 90175

Client Sample ID: BH24-16
Prep Type: Total/NA
Prep Batch: 89938

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1232		mg/Kg		123	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1036		mg/Kg		104	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	149	S1+	70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: MB 880-89939/1-A
Matrix: Solid
Analysis Batch: 90077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89939

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 10:56	09/04/24 23:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 10:56	09/04/24 23:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:56	09/04/24 23:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	09/03/24 10:56	09/04/24 23:03	1
o-Terphenyl	92		70 - 130	09/03/24 10:56	09/04/24 23:03	1

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Lab Sample ID: LCS 880-89939/2-A
Matrix: Solid
Analysis Batch: 90077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89939

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	981.4		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1003		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*130*		*70 - 130*

Lab Sample ID: LCSD 880-89939/3-A
Matrix: Solid
Analysis Batch: 90077

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89939

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1239	*1	mg/Kg		124	70 - 130	23	20
Diesel Range Organics (Over C10-C28)			1000	1281	*1	mg/Kg		128	70 - 130	24	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*123*		*70 - 130*
o-Terphenyl	*139*	*S1+*	*70 - 130*

Lab Sample ID: 890-7066-21 MS
Matrix: Solid
Analysis Batch: 90077

Client Sample ID: BH24-22
Prep Type: Total/NA
Prep Batch: 89939

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	998	1153		mg/Kg		116	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U *1	998	1149		mg/Kg		115	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*131*	*S1+*	*70 - 130*

Lab Sample ID: 890-7066-21 MSD
Matrix: Solid
Analysis Batch: 90077

Client Sample ID: BH24-22
Prep Type: Total/NA
Prep Batch: 89939

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	998	1157		mg/Kg		116	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U *1	998	1184		mg/Kg		119	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Lab Sample ID: 890-7066-21 MSD
Matrix: Solid
Analysis Batch: 90077

Client Sample ID: BH24-22
Prep Type: Total/NA
Prep Batch: 89939

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: MB 880-89940/1-A
Matrix: Solid
Analysis Batch: 90080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89940

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/04/24 22:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/04/24 22:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/03/24 10:58	09/04/24 22:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130	09/03/24 10:58	09/04/24 22:49	1
o-Terphenyl	73		70 - 130	09/03/24 10:58	09/04/24 22:49	1

Lab Sample ID: LCS 880-89940/2-A
Matrix: Solid
Analysis Batch: 90080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89940

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	930.7		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	903.7		mg/Kg		90	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-89940/3-A
Matrix: Solid
Analysis Batch: 90080

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89940

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	908.3		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	970.5		mg/Kg		97	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	100		70 - 130

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Lab Sample ID: 890-7066-41 MS
Matrix: Solid
Analysis Batch: 90080

Client Sample ID: BH24-29
Prep Type: Total/NA
Prep Batch: 89940

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	875.5		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	929.8		mg/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: 890-7066-41 MSD
Matrix: Solid
Analysis Batch: 90080

Client Sample ID: BH24-29
Prep Type: Total/NA
Prep Batch: 89940

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	815.3		mg/Kg		82	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	853.6		mg/Kg		84	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: MB 880-89988/1-A
Matrix: Solid
Analysis Batch: 90080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89988

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/03/24 15:58	09/04/24 10:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/03/24 15:58	09/04/24 10:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/03/24 15:58	09/04/24 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*09/03/24 15:58*	*09/04/24 10:40*	*1*
o-Terphenyl	*88*		*70 - 130*	*09/03/24 15:58*	*09/04/24 10:40*	*1*

Lab Sample ID: LCS 880-89988/2-A
Matrix: Solid
Analysis Batch: 90080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89988

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	993.5		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1221		mg/Kg		122	70 - 130

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Lab Sample ID: LCS 880-89988/2-A
Matrix: Solid
Analysis Batch: 90080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89988

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: LCSD 880-89988/3-A
Matrix: Solid
Analysis Batch: 90080

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89988

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	883.0		mg/Kg		88	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	994.1		mg/Kg		99	70 - 130	20	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 890-7066-61 MS
Matrix: Solid
Analysis Batch: 90080

Client Sample ID: BH24-36
Prep Type: Total/NA
Prep Batch: 89988

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	994	788.6		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	994	781.6		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-7066-61 MSD
Matrix: Solid
Analysis Batch: 90080

Client Sample ID: BH24-36
Prep Type: Total/NA
Prep Batch: 89988

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	994	790.2		mg/Kg		79	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	994	799.1		mg/Kg		80	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	89		70 - 130

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-89950/1-A
Matrix: Solid
Analysis Batch: 89989

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/05/24 21:32	1

Lab Sample ID: LCS 880-89950/2-A
Matrix: Solid
Analysis Batch: 89989

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-89950/3-A
Matrix: Solid
Analysis Batch: 89989

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	239.4		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-47965-A-1-C MS
Matrix: Solid
Analysis Batch: 89989

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	743		1250	2056		mg/Kg		105	90 - 110		

Lab Sample ID: 880-47965-A-1-D MSD
Matrix: Solid
Analysis Batch: 89989

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	743		1250	2058		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-89951/1-A
Matrix: Solid
Analysis Batch: 90020

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/05/24 09:25	1

Lab Sample ID: LCS 880-89951/2-A
Matrix: Solid
Analysis Batch: 90020

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.8		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-89951/3-A
Matrix: Solid
Analysis Batch: 90020

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	249.8		mg/Kg		100	90 - 110	0	20

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7066-7 MS
Matrix: Solid
Analysis Batch: 90020

Client Sample ID: BH24-18
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14.5		248	258.8		mg/Kg		98	90 - 110

Lab Sample ID: 890-7066-7 MSD
Matrix: Solid
Analysis Batch: 90020

Client Sample ID: BH24-18
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14.5		248	258.4		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-7066-17 MS
Matrix: Solid
Analysis Batch: 90020

Client Sample ID: BH24-21
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1560	F1	1240	2916		mg/Kg		110	90 - 110

Lab Sample ID: 890-7066-17 MSD
Matrix: Solid
Analysis Batch: 90020

Client Sample ID: BH24-21
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1560	F1	1240	2933	F1	mg/Kg		111	90 - 110	1	20

Lab Sample ID: MB 880-89953/1-A
Matrix: Solid
Analysis Batch: 90021

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/05/24 03:17	1

Lab Sample ID: LCS 880-89953/2-A
Matrix: Solid
Analysis Batch: 90021

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	243.6		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-89953/3-A
Matrix: Solid
Analysis Batch: 90021

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	243.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-7066-27 MS
Matrix: Solid
Analysis Batch: 90021

Client Sample ID: BH24-24
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.00	U	250	239.9		mg/Kg		95	90 - 110

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7066-27 MSD
Matrix: Solid
Analysis Batch: 90021

Client Sample ID: BH24-24
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.00	U	250	239.9		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-7066-37 MS
Matrix: Solid
Analysis Batch: 90021

Client Sample ID: BH24-28
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13.8		248	246.9		mg/Kg		94	90 - 110

Lab Sample ID: 890-7066-37 MSD
Matrix: Solid
Analysis Batch: 90021

Client Sample ID: BH24-28
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13.8		248	246.7		mg/Kg		94	90 - 110	0	20

Lab Sample ID: MB 880-89954/1-A
Matrix: Solid
Analysis Batch: 90031

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/05/24 04:15	1

Lab Sample ID: LCS 880-89954/2-A
Matrix: Solid
Analysis Batch: 90031

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-89954/3-A
Matrix: Solid
Analysis Batch: 90031

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-7066-47 MS
Matrix: Solid
Analysis Batch: 90031

Client Sample ID: BH24-31
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9.17		252	249.5		mg/Kg		95	90 - 110

Lab Sample ID: 890-7066-47 MSD
Matrix: Solid
Analysis Batch: 90031

Client Sample ID: BH24-31
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9.17		252	254.6		mg/Kg		97	90 - 110	2	20

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7066-57 MS
Matrix: Solid
Analysis Batch: 90031

Client Sample ID: BH24-34
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<5.04	U	252	253.5		mg/Kg		99	90 - 110		

Lab Sample ID: 890-7066-57 MSD
Matrix: Solid
Analysis Batch: 90031

Client Sample ID: BH24-34
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.04	U	252	252.3		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

GC VOA

Prep Batch: 89901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-1	BH24-16	Total/NA	Solid	5035	
890-7066-2	BH24-16	Total/NA	Solid	5035	
890-7066-3	BH24-16	Total/NA	Solid	5035	
890-7066-4	BH24-17	Total/NA	Solid	5035	
890-7066-5	BH24-17	Total/NA	Solid	5035	
890-7066-6	BH24-17	Total/NA	Solid	5035	
890-7066-7	BH24-18	Total/NA	Solid	5035	
890-7066-8	BH24-18	Total/NA	Solid	5035	
890-7066-9	BH24-18	Total/NA	Solid	5035	
890-7066-10	BH24-19	Total/NA	Solid	5035	
890-7066-11	BH24-19	Total/NA	Solid	5035	
890-7066-12	BH24-19	Total/NA	Solid	5035	
890-7066-13	BH24-20	Total/NA	Solid	5035	
890-7066-14	BH24-20	Total/NA	Solid	5035	
890-7066-15	BH24-20	Total/NA	Solid	5035	
890-7066-16	BH24-21	Total/NA	Solid	5035	
890-7066-17	BH24-21	Total/NA	Solid	5035	
890-7066-18	BH24-21	Total/NA	Solid	5035	
890-7066-19	BH24-22	Total/NA	Solid	5035	
890-7066-20	BH24-22	Total/NA	Solid	5035	
MB 880-89901/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-89901/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-89901/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7066-1 MS	BH24-16	Total/NA	Solid	5035	
890-7066-1 MSD	BH24-16	Total/NA	Solid	5035	

Prep Batch: 89902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-21	BH24-22	Total/NA	Solid	5035	
890-7066-22	BH24-23	Total/NA	Solid	5035	
890-7066-23	BH24-23	Total/NA	Solid	5035	
890-7066-24	BH24-23	Total/NA	Solid	5035	
890-7066-25	BH24-24	Total/NA	Solid	5035	
890-7066-26	BH24-24	Total/NA	Solid	5035	
890-7066-27	BH24-24	Total/NA	Solid	5035	
890-7066-28	BH24-25	Total/NA	Solid	5035	
890-7066-29	BH24-25	Total/NA	Solid	5035	
890-7066-30	BH24-25	Total/NA	Solid	5035	
890-7066-31	BH24-26	Total/NA	Solid	5035	
890-7066-32	BH24-26	Total/NA	Solid	5035	
890-7066-33	BH24-26	Total/NA	Solid	5035	
890-7066-34	BH24-27	Total/NA	Solid	5035	
890-7066-35	BH24-27	Total/NA	Solid	5035	
890-7066-36	BH24-27	Total/NA	Solid	5035	
890-7066-37	BH24-28	Total/NA	Solid	5035	
890-7066-38	BH24-28	Total/NA	Solid	5035	
890-7066-39	BH24-28	Total/NA	Solid	5035	
890-7066-40	BH24-29	Total/NA	Solid	5035	
MB 880-89902/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-89902/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-89902/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

GC VOA (Continued)

Prep Batch: 89902 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-21 MS	BH24-22	Total/NA	Solid	5035	
890-7066-21 MSD	BH24-22	Total/NA	Solid	5035	

Prep Batch: 89903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-41	BH24-29	Total/NA	Solid	5035	
890-7066-42	BH24-29	Total/NA	Solid	5035	
890-7066-43	BH24-30	Total/NA	Solid	5035	
890-7066-44	BH24-30	Total/NA	Solid	5035	
890-7066-45	BH24-30	Total/NA	Solid	5035	
890-7066-46	BH24-31	Total/NA	Solid	5035	
890-7066-47	BH24-31	Total/NA	Solid	5035	
890-7066-48	BH24-31	Total/NA	Solid	5035	
890-7066-49	BH24-32	Total/NA	Solid	5035	
890-7066-50	BH24-32	Total/NA	Solid	5035	
890-7066-51	BH24-32	Total/NA	Solid	5035	
890-7066-52	BH24-33	Total/NA	Solid	5035	
890-7066-53	BH24-33	Total/NA	Solid	5035	
890-7066-54	BH24-33	Total/NA	Solid	5035	
890-7066-55	BH24-34	Total/NA	Solid	5035	
890-7066-56	BH24-34	Total/NA	Solid	5035	
890-7066-57	BH24-34	Total/NA	Solid	5035	
890-7066-58	BH24-35	Total/NA	Solid	5035	
890-7066-59	BH24-35	Total/NA	Solid	5035	
890-7066-60	BH24-35	Total/NA	Solid	5035	
MB 880-89903/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-89903/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-89903/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7066-41 MS	BH24-29	Total/NA	Solid	5035	
890-7066-41 MSD	BH24-29	Total/NA	Solid	5035	

Prep Batch: 89909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-61	BH24-36	Total/NA	Solid	5035	
890-7066-62	BH24-36	Total/NA	Solid	5035	
890-7066-63	BH24-36	Total/NA	Solid	5035	
890-7066-64	BH24-37	Total/NA	Solid	5035	
890-7066-65	BH24-37	Total/NA	Solid	5035	
890-7066-66	BH24-37	Total/NA	Solid	5035	
MB 880-89909/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-89909/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-89909/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7066-61 MS	BH24-36	Total/NA	Solid	5035	
890-7066-61 MSD	BH24-36	Total/NA	Solid	5035	

Analysis Batch: 89911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-1	BH24-16	Total/NA	Solid	8021B	89901
890-7066-2	BH24-16	Total/NA	Solid	8021B	89901
890-7066-3	BH24-16	Total/NA	Solid	8021B	89901
890-7066-4	BH24-17	Total/NA	Solid	8021B	89901

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

GC VOA (Continued)

Analysis Batch: 89911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-5	BH24-17	Total/NA	Solid	8021B	89901
890-7066-6	BH24-17	Total/NA	Solid	8021B	89901
890-7066-7	BH24-18	Total/NA	Solid	8021B	89901
890-7066-8	BH24-18	Total/NA	Solid	8021B	89901
890-7066-9	BH24-18	Total/NA	Solid	8021B	89901
890-7066-10	BH24-19	Total/NA	Solid	8021B	89901
890-7066-11	BH24-19	Total/NA	Solid	8021B	89901
890-7066-12	BH24-19	Total/NA	Solid	8021B	89901
890-7066-13	BH24-20	Total/NA	Solid	8021B	89901
890-7066-14	BH24-20	Total/NA	Solid	8021B	89901
890-7066-15	BH24-20	Total/NA	Solid	8021B	89901
890-7066-16	BH24-21	Total/NA	Solid	8021B	89901
890-7066-17	BH24-21	Total/NA	Solid	8021B	89901
890-7066-18	BH24-21	Total/NA	Solid	8021B	89901
890-7066-19	BH24-22	Total/NA	Solid	8021B	89901
890-7066-20	BH24-22	Total/NA	Solid	8021B	89901
MB 880-89901/5-A	Method Blank	Total/NA	Solid	8021B	89901
LCS 880-89901/1-A	Lab Control Sample	Total/NA	Solid	8021B	89901
LCSD 880-89901/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	89901
890-7066-1 MS	BH24-16	Total/NA	Solid	8021B	89901
890-7066-1 MSD	BH24-16	Total/NA	Solid	8021B	89901

Analysis Batch: 89913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-41	BH24-29	Total/NA	Solid	8021B	89903
890-7066-42	BH24-29	Total/NA	Solid	8021B	89903
890-7066-43	BH24-30	Total/NA	Solid	8021B	89903
890-7066-44	BH24-30	Total/NA	Solid	8021B	89903
890-7066-45	BH24-30	Total/NA	Solid	8021B	89903
890-7066-46	BH24-31	Total/NA	Solid	8021B	89903
890-7066-47	BH24-31	Total/NA	Solid	8021B	89903
890-7066-48	BH24-31	Total/NA	Solid	8021B	89903
890-7066-49	BH24-32	Total/NA	Solid	8021B	89903
890-7066-50	BH24-32	Total/NA	Solid	8021B	89903
890-7066-51	BH24-32	Total/NA	Solid	8021B	89903
890-7066-52	BH24-33	Total/NA	Solid	8021B	89903
890-7066-53	BH24-33	Total/NA	Solid	8021B	89903
890-7066-54	BH24-33	Total/NA	Solid	8021B	89903
890-7066-55	BH24-34	Total/NA	Solid	8021B	89903
890-7066-56	BH24-34	Total/NA	Solid	8021B	89903
890-7066-57	BH24-34	Total/NA	Solid	8021B	89903
890-7066-58	BH24-35	Total/NA	Solid	8021B	89903
890-7066-59	BH24-35	Total/NA	Solid	8021B	89903
890-7066-60	BH24-35	Total/NA	Solid	8021B	89903
890-7066-61	BH24-36	Total/NA	Solid	8021B	89909
890-7066-62	BH24-36	Total/NA	Solid	8021B	89909
890-7066-63	BH24-36	Total/NA	Solid	8021B	89909
890-7066-64	BH24-37	Total/NA	Solid	8021B	89909
890-7066-65	BH24-37	Total/NA	Solid	8021B	89909
890-7066-66	BH24-37	Total/NA	Solid	8021B	89909
MB 880-89903/5-A	Method Blank	Total/NA	Solid	8021B	89903

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

GC VOA (Continued)

Analysis Batch: 89913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-89909/5-A	Method Blank	Total/NA	Solid	8021B	89909
LCS 880-89903/1-A	Lab Control Sample	Total/NA	Solid	8021B	89903
LCS 880-89909/1-A	Lab Control Sample	Total/NA	Solid	8021B	89909
LCSD 880-89903/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	89903
LCSD 880-89909/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	89909
890-7066-41 MS	BH24-29	Total/NA	Solid	8021B	89903
890-7066-41 MSD	BH24-29	Total/NA	Solid	8021B	89903
890-7066-61 MS	BH24-36	Total/NA	Solid	8021B	89909
890-7066-61 MSD	BH24-36	Total/NA	Solid	8021B	89909

Analysis Batch: 89978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-21	BH24-22	Total/NA	Solid	8021B	89902
890-7066-22	BH24-23	Total/NA	Solid	8021B	89902
890-7066-23	BH24-23	Total/NA	Solid	8021B	89902
890-7066-24	BH24-23	Total/NA	Solid	8021B	89902
890-7066-25	BH24-24	Total/NA	Solid	8021B	89902
890-7066-26	BH24-24	Total/NA	Solid	8021B	89902
890-7066-27	BH24-24	Total/NA	Solid	8021B	89902
890-7066-28	BH24-25	Total/NA	Solid	8021B	89902
890-7066-29	BH24-25	Total/NA	Solid	8021B	89902
890-7066-30	BH24-25	Total/NA	Solid	8021B	89902
890-7066-31	BH24-26	Total/NA	Solid	8021B	89902
890-7066-32	BH24-26	Total/NA	Solid	8021B	89902
890-7066-33	BH24-26	Total/NA	Solid	8021B	89902
890-7066-34	BH24-27	Total/NA	Solid	8021B	89902
890-7066-35	BH24-27	Total/NA	Solid	8021B	89902
890-7066-36	BH24-27	Total/NA	Solid	8021B	89902
890-7066-37	BH24-28	Total/NA	Solid	8021B	89902
890-7066-38	BH24-28	Total/NA	Solid	8021B	89902
890-7066-39	BH24-28	Total/NA	Solid	8021B	89902
890-7066-40	BH24-29	Total/NA	Solid	8021B	89902
MB 880-89902/5-A	Method Blank	Total/NA	Solid	8021B	89902
LCS 880-89902/1-A	Lab Control Sample	Total/NA	Solid	8021B	89902
LCSD 880-89902/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	89902
890-7066-21 MS	BH24-22	Total/NA	Solid	8021B	89902
890-7066-21 MSD	BH24-22	Total/NA	Solid	8021B	89902

Analysis Batch: 90066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-1	BH24-16	Total/NA	Solid	Total BTEX	
890-7066-2	BH24-16	Total/NA	Solid	Total BTEX	
890-7066-3	BH24-16	Total/NA	Solid	Total BTEX	
890-7066-4	BH24-17	Total/NA	Solid	Total BTEX	
890-7066-5	BH24-17	Total/NA	Solid	Total BTEX	
890-7066-6	BH24-17	Total/NA	Solid	Total BTEX	
890-7066-7	BH24-18	Total/NA	Solid	Total BTEX	
890-7066-8	BH24-18	Total/NA	Solid	Total BTEX	
890-7066-9	BH24-18	Total/NA	Solid	Total BTEX	
890-7066-10	BH24-19	Total/NA	Solid	Total BTEX	
890-7066-11	BH24-19	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

GC VOA (Continued)

Analysis Batch: 90066 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-12	BH24-19	Total/NA	Solid	Total BTEX	
890-7066-13	BH24-20	Total/NA	Solid	Total BTEX	
890-7066-14	BH24-20	Total/NA	Solid	Total BTEX	
890-7066-15	BH24-20	Total/NA	Solid	Total BTEX	
890-7066-16	BH24-21	Total/NA	Solid	Total BTEX	
890-7066-17	BH24-21	Total/NA	Solid	Total BTEX	
890-7066-18	BH24-21	Total/NA	Solid	Total BTEX	
890-7066-19	BH24-22	Total/NA	Solid	Total BTEX	
890-7066-20	BH24-22	Total/NA	Solid	Total BTEX	
890-7066-21	BH24-22	Total/NA	Solid	Total BTEX	
890-7066-22	BH24-23	Total/NA	Solid	Total BTEX	
890-7066-23	BH24-23	Total/NA	Solid	Total BTEX	
890-7066-24	BH24-23	Total/NA	Solid	Total BTEX	
890-7066-25	BH24-24	Total/NA	Solid	Total BTEX	
890-7066-26	BH24-24	Total/NA	Solid	Total BTEX	
890-7066-27	BH24-24	Total/NA	Solid	Total BTEX	
890-7066-28	BH24-25	Total/NA	Solid	Total BTEX	
890-7066-29	BH24-25	Total/NA	Solid	Total BTEX	
890-7066-30	BH24-25	Total/NA	Solid	Total BTEX	
890-7066-31	BH24-26	Total/NA	Solid	Total BTEX	
890-7066-32	BH24-26	Total/NA	Solid	Total BTEX	
890-7066-33	BH24-26	Total/NA	Solid	Total BTEX	
890-7066-34	BH24-27	Total/NA	Solid	Total BTEX	
890-7066-35	BH24-27	Total/NA	Solid	Total BTEX	
890-7066-36	BH24-27	Total/NA	Solid	Total BTEX	
890-7066-37	BH24-28	Total/NA	Solid	Total BTEX	
890-7066-38	BH24-28	Total/NA	Solid	Total BTEX	
890-7066-39	BH24-28	Total/NA	Solid	Total BTEX	
890-7066-40	BH24-29	Total/NA	Solid	Total BTEX	
890-7066-41	BH24-29	Total/NA	Solid	Total BTEX	
890-7066-42	BH24-29	Total/NA	Solid	Total BTEX	
890-7066-43	BH24-30	Total/NA	Solid	Total BTEX	
890-7066-44	BH24-30	Total/NA	Solid	Total BTEX	
890-7066-45	BH24-30	Total/NA	Solid	Total BTEX	
890-7066-46	BH24-31	Total/NA	Solid	Total BTEX	
890-7066-47	BH24-31	Total/NA	Solid	Total BTEX	
890-7066-48	BH24-31	Total/NA	Solid	Total BTEX	
890-7066-49	BH24-32	Total/NA	Solid	Total BTEX	
890-7066-50	BH24-32	Total/NA	Solid	Total BTEX	
890-7066-51	BH24-32	Total/NA	Solid	Total BTEX	
890-7066-52	BH24-33	Total/NA	Solid	Total BTEX	
890-7066-53	BH24-33	Total/NA	Solid	Total BTEX	
890-7066-54	BH24-33	Total/NA	Solid	Total BTEX	
890-7066-55	BH24-34	Total/NA	Solid	Total BTEX	
890-7066-56	BH24-34	Total/NA	Solid	Total BTEX	
890-7066-57	BH24-34	Total/NA	Solid	Total BTEX	
890-7066-58	BH24-35	Total/NA	Solid	Total BTEX	
890-7066-59	BH24-35	Total/NA	Solid	Total BTEX	
890-7066-60	BH24-35	Total/NA	Solid	Total BTEX	
890-7066-61	BH24-36	Total/NA	Solid	Total BTEX	
890-7066-62	BH24-36	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

GC VOA (Continued)

Analysis Batch: 90066 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-63	BH24-36	Total/NA	Solid	Total BTEX	
890-7066-64	BH24-37	Total/NA	Solid	Total BTEX	
890-7066-65	BH24-37	Total/NA	Solid	Total BTEX	
890-7066-66	BH24-37	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 89938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-1	BH24-16	Total/NA	Solid	8015NM Prep	
890-7066-2	BH24-16	Total/NA	Solid	8015NM Prep	
890-7066-3	BH24-16	Total/NA	Solid	8015NM Prep	
890-7066-4	BH24-17	Total/NA	Solid	8015NM Prep	
890-7066-5	BH24-17	Total/NA	Solid	8015NM Prep	
890-7066-6	BH24-17	Total/NA	Solid	8015NM Prep	
890-7066-7	BH24-18	Total/NA	Solid	8015NM Prep	
890-7066-8	BH24-18	Total/NA	Solid	8015NM Prep	
890-7066-9	BH24-18	Total/NA	Solid	8015NM Prep	
890-7066-10	BH24-19	Total/NA	Solid	8015NM Prep	
890-7066-11	BH24-19	Total/NA	Solid	8015NM Prep	
890-7066-12	BH24-19	Total/NA	Solid	8015NM Prep	
890-7066-13	BH24-20	Total/NA	Solid	8015NM Prep	
890-7066-14	BH24-20	Total/NA	Solid	8015NM Prep	
890-7066-15	BH24-20	Total/NA	Solid	8015NM Prep	
890-7066-16	BH24-21	Total/NA	Solid	8015NM Prep	
890-7066-17	BH24-21	Total/NA	Solid	8015NM Prep	
890-7066-18	BH24-21	Total/NA	Solid	8015NM Prep	
890-7066-19	BH24-22	Total/NA	Solid	8015NM Prep	
890-7066-20	BH24-22	Total/NA	Solid	8015NM Prep	
MB 880-89938/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-89938/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-89938/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7066-1 MS	BH24-16	Total/NA	Solid	8015NM Prep	
890-7066-1 MSD	BH24-16	Total/NA	Solid	8015NM Prep	

Prep Batch: 89939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-21	BH24-22	Total/NA	Solid	8015NM Prep	
890-7066-22	BH24-23	Total/NA	Solid	8015NM Prep	
890-7066-23	BH24-23	Total/NA	Solid	8015NM Prep	
890-7066-24	BH24-23	Total/NA	Solid	8015NM Prep	
890-7066-25	BH24-24	Total/NA	Solid	8015NM Prep	
890-7066-26	BH24-24	Total/NA	Solid	8015NM Prep	
890-7066-27	BH24-24	Total/NA	Solid	8015NM Prep	
890-7066-28	BH24-25	Total/NA	Solid	8015NM Prep	
890-7066-29	BH24-25	Total/NA	Solid	8015NM Prep	
890-7066-30	BH24-25	Total/NA	Solid	8015NM Prep	
890-7066-31	BH24-26	Total/NA	Solid	8015NM Prep	
890-7066-32	BH24-26	Total/NA	Solid	8015NM Prep	
890-7066-33	BH24-26	Total/NA	Solid	8015NM Prep	
890-7066-34	BH24-27	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

GC Semi VOA (Continued)

Prep Batch: 89939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-35	BH24-27	Total/NA	Solid	8015NM Prep	
890-7066-36	BH24-27	Total/NA	Solid	8015NM Prep	
890-7066-37	BH24-28	Total/NA	Solid	8015NM Prep	
890-7066-38	BH24-28	Total/NA	Solid	8015NM Prep	
890-7066-39	BH24-28	Total/NA	Solid	8015NM Prep	
890-7066-40	BH24-29	Total/NA	Solid	8015NM Prep	
MB 880-89939/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-89939/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-89939/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7066-21 MS	BH24-22	Total/NA	Solid	8015NM Prep	
890-7066-21 MSD	BH24-22	Total/NA	Solid	8015NM Prep	

Prep Batch: 89940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-41	BH24-29	Total/NA	Solid	8015NM Prep	
890-7066-42	BH24-29	Total/NA	Solid	8015NM Prep	
890-7066-43	BH24-30	Total/NA	Solid	8015NM Prep	
890-7066-44	BH24-30	Total/NA	Solid	8015NM Prep	
890-7066-45	BH24-30	Total/NA	Solid	8015NM Prep	
890-7066-46	BH24-31	Total/NA	Solid	8015NM Prep	
890-7066-47	BH24-31	Total/NA	Solid	8015NM Prep	
890-7066-48	BH24-31	Total/NA	Solid	8015NM Prep	
890-7066-49	BH24-32	Total/NA	Solid	8015NM Prep	
890-7066-50	BH24-32	Total/NA	Solid	8015NM Prep	
890-7066-51	BH24-32	Total/NA	Solid	8015NM Prep	
890-7066-52	BH24-33	Total/NA	Solid	8015NM Prep	
890-7066-53	BH24-33	Total/NA	Solid	8015NM Prep	
890-7066-54	BH24-33	Total/NA	Solid	8015NM Prep	
890-7066-55	BH24-34	Total/NA	Solid	8015NM Prep	
890-7066-56	BH24-34	Total/NA	Solid	8015NM Prep	
890-7066-57	BH24-34	Total/NA	Solid	8015NM Prep	
890-7066-58	BH24-35	Total/NA	Solid	8015NM Prep	
890-7066-59	BH24-35	Total/NA	Solid	8015NM Prep	
890-7066-60	BH24-35	Total/NA	Solid	8015NM Prep	
MB 880-89940/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-89940/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-89940/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7066-41 MS	BH24-29	Total/NA	Solid	8015NM Prep	
890-7066-41 MSD	BH24-29	Total/NA	Solid	8015NM Prep	

Prep Batch: 89988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-61	BH24-36	Total/NA	Solid	8015NM Prep	
890-7066-62	BH24-36	Total/NA	Solid	8015NM Prep	
890-7066-63	BH24-36	Total/NA	Solid	8015NM Prep	
890-7066-64	BH24-37	Total/NA	Solid	8015NM Prep	
890-7066-65	BH24-37	Total/NA	Solid	8015NM Prep	
890-7066-66	BH24-37	Total/NA	Solid	8015NM Prep	
MB 880-89988/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-89988/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-89988/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

GC Semi VOA (Continued)

Prep Batch: 89988 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-61 MS	BH24-36	Total/NA	Solid	8015NM Prep	
890-7066-61 MSD	BH24-36	Total/NA	Solid	8015NM Prep	

Analysis Batch: 90077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-21	BH24-22	Total/NA	Solid	8015B NM	89939
890-7066-22	BH24-23	Total/NA	Solid	8015B NM	89939
890-7066-23	BH24-23	Total/NA	Solid	8015B NM	89939
890-7066-24	BH24-23	Total/NA	Solid	8015B NM	89939
890-7066-25	BH24-24	Total/NA	Solid	8015B NM	89939
890-7066-26	BH24-24	Total/NA	Solid	8015B NM	89939
890-7066-27	BH24-24	Total/NA	Solid	8015B NM	89939
890-7066-28	BH24-25	Total/NA	Solid	8015B NM	89939
890-7066-29	BH24-25	Total/NA	Solid	8015B NM	89939
890-7066-30	BH24-25	Total/NA	Solid	8015B NM	89939
890-7066-31	BH24-26	Total/NA	Solid	8015B NM	89939
890-7066-32	BH24-26	Total/NA	Solid	8015B NM	89939
890-7066-33	BH24-26	Total/NA	Solid	8015B NM	89939
890-7066-34	BH24-27	Total/NA	Solid	8015B NM	89939
890-7066-35	BH24-27	Total/NA	Solid	8015B NM	89939
890-7066-36	BH24-27	Total/NA	Solid	8015B NM	89939
890-7066-37	BH24-28	Total/NA	Solid	8015B NM	89939
890-7066-38	BH24-28	Total/NA	Solid	8015B NM	89939
890-7066-39	BH24-28	Total/NA	Solid	8015B NM	89939
890-7066-40	BH24-29	Total/NA	Solid	8015B NM	89939
MB 880-89939/1-A	Method Blank	Total/NA	Solid	8015B NM	89939
LCS 880-89939/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	89939
LCSD 880-89939/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89939
890-7066-21 MS	BH24-22	Total/NA	Solid	8015B NM	89939
890-7066-21 MSD	BH24-22	Total/NA	Solid	8015B NM	89939

Analysis Batch: 90080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-41	BH24-29	Total/NA	Solid	8015B NM	89940
890-7066-42	BH24-29	Total/NA	Solid	8015B NM	89940
890-7066-43	BH24-30	Total/NA	Solid	8015B NM	89940
890-7066-44	BH24-30	Total/NA	Solid	8015B NM	89940
890-7066-45	BH24-30	Total/NA	Solid	8015B NM	89940
890-7066-46	BH24-31	Total/NA	Solid	8015B NM	89940
890-7066-47	BH24-31	Total/NA	Solid	8015B NM	89940
890-7066-48	BH24-31	Total/NA	Solid	8015B NM	89940
890-7066-49	BH24-32	Total/NA	Solid	8015B NM	89940
890-7066-50	BH24-32	Total/NA	Solid	8015B NM	89940
890-7066-51	BH24-32	Total/NA	Solid	8015B NM	89940
890-7066-52	BH24-33	Total/NA	Solid	8015B NM	89940
890-7066-53	BH24-33	Total/NA	Solid	8015B NM	89940
890-7066-54	BH24-33	Total/NA	Solid	8015B NM	89940
890-7066-55	BH24-34	Total/NA	Solid	8015B NM	89940
890-7066-56	BH24-34	Total/NA	Solid	8015B NM	89940
890-7066-57	BH24-34	Total/NA	Solid	8015B NM	89940
890-7066-58	BH24-35	Total/NA	Solid	8015B NM	89940

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

GC Semi VOA (Continued)

Analysis Batch: 90080 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-59	BH24-35	Total/NA	Solid	8015B NM	89940
890-7066-60	BH24-35	Total/NA	Solid	8015B NM	89940
890-7066-61	BH24-36	Total/NA	Solid	8015B NM	89988
890-7066-62	BH24-36	Total/NA	Solid	8015B NM	89988
890-7066-63	BH24-36	Total/NA	Solid	8015B NM	89988
890-7066-64	BH24-37	Total/NA	Solid	8015B NM	89988
890-7066-65	BH24-37	Total/NA	Solid	8015B NM	89988
890-7066-66	BH24-37	Total/NA	Solid	8015B NM	89988
MB 880-89940/1-A	Method Blank	Total/NA	Solid	8015B NM	89940
MB 880-89988/1-A	Method Blank	Total/NA	Solid	8015B NM	89988
LCS 880-89940/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	89940
LCS 880-89988/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	89988
LCSD 880-89940/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89940
LCSD 880-89988/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89988
890-7066-41 MS	BH24-29	Total/NA	Solid	8015B NM	89940
890-7066-41 MSD	BH24-29	Total/NA	Solid	8015B NM	89940
890-7066-61 MS	BH24-36	Total/NA	Solid	8015B NM	89988
890-7066-61 MSD	BH24-36	Total/NA	Solid	8015B NM	89988

Analysis Batch: 90146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-1	BH24-16	Total/NA	Solid	8015 NM	
890-7066-2	BH24-16	Total/NA	Solid	8015 NM	
890-7066-3	BH24-16	Total/NA	Solid	8015 NM	
890-7066-4	BH24-17	Total/NA	Solid	8015 NM	
890-7066-5	BH24-17	Total/NA	Solid	8015 NM	
890-7066-6	BH24-17	Total/NA	Solid	8015 NM	
890-7066-7	BH24-18	Total/NA	Solid	8015 NM	
890-7066-8	BH24-18	Total/NA	Solid	8015 NM	
890-7066-9	BH24-18	Total/NA	Solid	8015 NM	
890-7066-10	BH24-19	Total/NA	Solid	8015 NM	
890-7066-11	BH24-19	Total/NA	Solid	8015 NM	
890-7066-12	BH24-19	Total/NA	Solid	8015 NM	
890-7066-13	BH24-20	Total/NA	Solid	8015 NM	
890-7066-14	BH24-20	Total/NA	Solid	8015 NM	
890-7066-15	BH24-20	Total/NA	Solid	8015 NM	
890-7066-16	BH24-21	Total/NA	Solid	8015 NM	
890-7066-17	BH24-21	Total/NA	Solid	8015 NM	
890-7066-18	BH24-21	Total/NA	Solid	8015 NM	
890-7066-19	BH24-22	Total/NA	Solid	8015 NM	
890-7066-20	BH24-22	Total/NA	Solid	8015 NM	
890-7066-21	BH24-22	Total/NA	Solid	8015 NM	
890-7066-22	BH24-23	Total/NA	Solid	8015 NM	
890-7066-23	BH24-23	Total/NA	Solid	8015 NM	
890-7066-24	BH24-23	Total/NA	Solid	8015 NM	
890-7066-25	BH24-24	Total/NA	Solid	8015 NM	
890-7066-26	BH24-24	Total/NA	Solid	8015 NM	
890-7066-27	BH24-24	Total/NA	Solid	8015 NM	
890-7066-28	BH24-25	Total/NA	Solid	8015 NM	
890-7066-29	BH24-25	Total/NA	Solid	8015 NM	
890-7066-30	BH24-25	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

GC Semi VOA (Continued)

Analysis Batch: 90146 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-31	BH24-26	Total/NA	Solid	8015 NM	
890-7066-32	BH24-26	Total/NA	Solid	8015 NM	
890-7066-33	BH24-26	Total/NA	Solid	8015 NM	
890-7066-34	BH24-27	Total/NA	Solid	8015 NM	
890-7066-35	BH24-27	Total/NA	Solid	8015 NM	
890-7066-36	BH24-27	Total/NA	Solid	8015 NM	
890-7066-37	BH24-28	Total/NA	Solid	8015 NM	
890-7066-38	BH24-28	Total/NA	Solid	8015 NM	
890-7066-39	BH24-28	Total/NA	Solid	8015 NM	
890-7066-40	BH24-29	Total/NA	Solid	8015 NM	
890-7066-41	BH24-29	Total/NA	Solid	8015 NM	
890-7066-42	BH24-29	Total/NA	Solid	8015 NM	
890-7066-43	BH24-30	Total/NA	Solid	8015 NM	
890-7066-44	BH24-30	Total/NA	Solid	8015 NM	
890-7066-45	BH24-30	Total/NA	Solid	8015 NM	
890-7066-46	BH24-31	Total/NA	Solid	8015 NM	
890-7066-47	BH24-31	Total/NA	Solid	8015 NM	
890-7066-48	BH24-31	Total/NA	Solid	8015 NM	
890-7066-49	BH24-32	Total/NA	Solid	8015 NM	
890-7066-50	BH24-32	Total/NA	Solid	8015 NM	
890-7066-51	BH24-32	Total/NA	Solid	8015 NM	
890-7066-52	BH24-33	Total/NA	Solid	8015 NM	
890-7066-53	BH24-33	Total/NA	Solid	8015 NM	
890-7066-54	BH24-33	Total/NA	Solid	8015 NM	
890-7066-55	BH24-34	Total/NA	Solid	8015 NM	
890-7066-56	BH24-34	Total/NA	Solid	8015 NM	
890-7066-57	BH24-34	Total/NA	Solid	8015 NM	
890-7066-58	BH24-35	Total/NA	Solid	8015 NM	
890-7066-59	BH24-35	Total/NA	Solid	8015 NM	
890-7066-60	BH24-35	Total/NA	Solid	8015 NM	
890-7066-61	BH24-36	Total/NA	Solid	8015 NM	
890-7066-62	BH24-36	Total/NA	Solid	8015 NM	
890-7066-63	BH24-36	Total/NA	Solid	8015 NM	
890-7066-64	BH24-37	Total/NA	Solid	8015 NM	
890-7066-65	BH24-37	Total/NA	Solid	8015 NM	
890-7066-66	BH24-37	Total/NA	Solid	8015 NM	

Analysis Batch: 90175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-1	BH24-16	Total/NA	Solid	8015B NM	89938
890-7066-2	BH24-16	Total/NA	Solid	8015B NM	89938
890-7066-3	BH24-16	Total/NA	Solid	8015B NM	89938
890-7066-4	BH24-17	Total/NA	Solid	8015B NM	89938
890-7066-5	BH24-17	Total/NA	Solid	8015B NM	89938
890-7066-6	BH24-17	Total/NA	Solid	8015B NM	89938
890-7066-7	BH24-18	Total/NA	Solid	8015B NM	89938
890-7066-8	BH24-18	Total/NA	Solid	8015B NM	89938
890-7066-9	BH24-18	Total/NA	Solid	8015B NM	89938
890-7066-10	BH24-19	Total/NA	Solid	8015B NM	89938
890-7066-11	BH24-19	Total/NA	Solid	8015B NM	89938
890-7066-12	BH24-19	Total/NA	Solid	8015B NM	89938

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

GC Semi VOA (Continued)

Analysis Batch: 90175 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-13	BH24-20	Total/NA	Solid	8015B NM	89938
890-7066-14	BH24-20	Total/NA	Solid	8015B NM	89938
890-7066-15	BH24-20	Total/NA	Solid	8015B NM	89938
890-7066-16	BH24-21	Total/NA	Solid	8015B NM	89938
890-7066-17	BH24-21	Total/NA	Solid	8015B NM	89938
890-7066-18	BH24-21	Total/NA	Solid	8015B NM	89938
890-7066-19	BH24-22	Total/NA	Solid	8015B NM	89938
890-7066-20	BH24-22	Total/NA	Solid	8015B NM	89938
MB 880-89938/1-A	Method Blank	Total/NA	Solid	8015B NM	89938
LCS 880-89938/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	89938
LCSD 880-89938/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89938
890-7066-1 MS	BH24-16	Total/NA	Solid	8015B NM	89938
890-7066-1 MSD	BH24-16	Total/NA	Solid	8015B NM	89938

HPLC/IC

Leach Batch: 89950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-1	BH24-16	Soluble	Solid	DI Leach	
890-7066-2	BH24-16	Soluble	Solid	DI Leach	
890-7066-3	BH24-16	Soluble	Solid	DI Leach	
890-7066-4	BH24-17	Soluble	Solid	DI Leach	
890-7066-5	BH24-17	Soluble	Solid	DI Leach	
890-7066-6	BH24-17	Soluble	Solid	DI Leach	
MB 880-89950/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-89950/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-89950/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47965-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-47965-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 89951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-7	BH24-18	Soluble	Solid	DI Leach	
890-7066-8	BH24-18	Soluble	Solid	DI Leach	
890-7066-9	BH24-18	Soluble	Solid	DI Leach	
890-7066-10	BH24-19	Soluble	Solid	DI Leach	
890-7066-11	BH24-19	Soluble	Solid	DI Leach	
890-7066-12	BH24-19	Soluble	Solid	DI Leach	
890-7066-13	BH24-20	Soluble	Solid	DI Leach	
890-7066-14	BH24-20	Soluble	Solid	DI Leach	
890-7066-15	BH24-20	Soluble	Solid	DI Leach	
890-7066-16	BH24-21	Soluble	Solid	DI Leach	
890-7066-17	BH24-21	Soluble	Solid	DI Leach	
890-7066-18	BH24-21	Soluble	Solid	DI Leach	
890-7066-19	BH24-22	Soluble	Solid	DI Leach	
890-7066-20	BH24-22	Soluble	Solid	DI Leach	
890-7066-21	BH24-22	Soluble	Solid	DI Leach	
890-7066-22	BH24-23	Soluble	Solid	DI Leach	
890-7066-23	BH24-23	Soluble	Solid	DI Leach	
890-7066-24	BH24-23	Soluble	Solid	DI Leach	
890-7066-25	BH24-24	Soluble	Solid	DI Leach	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

HPLC/IC (Continued)

Leach Batch: 89951 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-26	BH24-24	Soluble	Solid	DI Leach	
MB 880-89951/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-89951/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-89951/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7066-7 MS	BH24-18	Soluble	Solid	DI Leach	
890-7066-7 MSD	BH24-18	Soluble	Solid	DI Leach	
890-7066-17 MS	BH24-21	Soluble	Solid	DI Leach	
890-7066-17 MSD	BH24-21	Soluble	Solid	DI Leach	

Leach Batch: 89953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-27	BH24-24	Soluble	Solid	DI Leach	
890-7066-28	BH24-25	Soluble	Solid	DI Leach	
890-7066-29	BH24-25	Soluble	Solid	DI Leach	
890-7066-30	BH24-25	Soluble	Solid	DI Leach	
890-7066-31	BH24-26	Soluble	Solid	DI Leach	
890-7066-32	BH24-26	Soluble	Solid	DI Leach	
890-7066-33	BH24-26	Soluble	Solid	DI Leach	
890-7066-34	BH24-27	Soluble	Solid	DI Leach	
890-7066-35	BH24-27	Soluble	Solid	DI Leach	
890-7066-36	BH24-27	Soluble	Solid	DI Leach	
890-7066-37	BH24-28	Soluble	Solid	DI Leach	
890-7066-38	BH24-28	Soluble	Solid	DI Leach	
890-7066-39	BH24-28	Soluble	Solid	DI Leach	
890-7066-40	BH24-29	Soluble	Solid	DI Leach	
890-7066-41	BH24-29	Soluble	Solid	DI Leach	
890-7066-42	BH24-29	Soluble	Solid	DI Leach	
890-7066-43	BH24-30	Soluble	Solid	DI Leach	
890-7066-44	BH24-30	Soluble	Solid	DI Leach	
890-7066-45	BH24-30	Soluble	Solid	DI Leach	
890-7066-46	BH24-31	Soluble	Solid	DI Leach	
MB 880-89953/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-89953/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-89953/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7066-27 MS	BH24-24	Soluble	Solid	DI Leach	
890-7066-27 MSD	BH24-24	Soluble	Solid	DI Leach	
890-7066-37 MS	BH24-28	Soluble	Solid	DI Leach	
890-7066-37 MSD	BH24-28	Soluble	Solid	DI Leach	

Leach Batch: 89954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-47	BH24-31	Soluble	Solid	DI Leach	
890-7066-48	BH24-31	Soluble	Solid	DI Leach	
890-7066-49	BH24-32	Soluble	Solid	DI Leach	
890-7066-50	BH24-32	Soluble	Solid	DI Leach	
890-7066-51	BH24-32	Soluble	Solid	DI Leach	
890-7066-52	BH24-33	Soluble	Solid	DI Leach	
890-7066-53	BH24-33	Soluble	Solid	DI Leach	
890-7066-54	BH24-33	Soluble	Solid	DI Leach	
890-7066-55	BH24-34	Soluble	Solid	DI Leach	
890-7066-56	BH24-34	Soluble	Solid	DI Leach	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

HPLC/IC (Continued)

Leach Batch: 89954 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-57	BH24-34	Soluble	Solid	DI Leach	
890-7066-58	BH24-35	Soluble	Solid	DI Leach	
890-7066-59	BH24-35	Soluble	Solid	DI Leach	
890-7066-60	BH24-35	Soluble	Solid	DI Leach	
890-7066-61	BH24-36	Soluble	Solid	DI Leach	
890-7066-62	BH24-36	Soluble	Solid	DI Leach	
890-7066-63	BH24-36	Soluble	Solid	DI Leach	
890-7066-64	BH24-37	Soluble	Solid	DI Leach	
890-7066-65	BH24-37	Soluble	Solid	DI Leach	
890-7066-66	BH24-37	Soluble	Solid	DI Leach	
MB 880-89954/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-89954/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-89954/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7066-47 MS	BH24-31	Soluble	Solid	DI Leach	
890-7066-47 MSD	BH24-31	Soluble	Solid	DI Leach	
890-7066-57 MS	BH24-34	Soluble	Solid	DI Leach	
890-7066-57 MSD	BH24-34	Soluble	Solid	DI Leach	

Analysis Batch: 89989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-1	BH24-16	Soluble	Solid	300.0	89950
890-7066-2	BH24-16	Soluble	Solid	300.0	89950
890-7066-3	BH24-16	Soluble	Solid	300.0	89950
890-7066-4	BH24-17	Soluble	Solid	300.0	89950
890-7066-5	BH24-17	Soluble	Solid	300.0	89950
890-7066-6	BH24-17	Soluble	Solid	300.0	89950
MB 880-89950/1-A	Method Blank	Soluble	Solid	300.0	89950
LCS 880-89950/2-A	Lab Control Sample	Soluble	Solid	300.0	89950
LCSD 880-89950/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	89950
880-47965-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	89950
880-47965-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	89950

Analysis Batch: 90020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-7	BH24-18	Soluble	Solid	300.0	89951
890-7066-8	BH24-18	Soluble	Solid	300.0	89951
890-7066-9	BH24-18	Soluble	Solid	300.0	89951
890-7066-10	BH24-19	Soluble	Solid	300.0	89951
890-7066-11	BH24-19	Soluble	Solid	300.0	89951
890-7066-12	BH24-19	Soluble	Solid	300.0	89951
890-7066-13	BH24-20	Soluble	Solid	300.0	89951
890-7066-14	BH24-20	Soluble	Solid	300.0	89951
890-7066-15	BH24-20	Soluble	Solid	300.0	89951
890-7066-16	BH24-21	Soluble	Solid	300.0	89951
890-7066-17	BH24-21	Soluble	Solid	300.0	89951
890-7066-18	BH24-21	Soluble	Solid	300.0	89951
890-7066-19	BH24-22	Soluble	Solid	300.0	89951
890-7066-20	BH24-22	Soluble	Solid	300.0	89951
890-7066-21	BH24-22	Soluble	Solid	300.0	89951
890-7066-22	BH24-23	Soluble	Solid	300.0	89951
890-7066-23	BH24-23	Soluble	Solid	300.0	89951

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

HPLC/IC (Continued)

Analysis Batch: 90020 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-24	BH24-23	Soluble	Solid	300.0	89951
890-7066-25	BH24-24	Soluble	Solid	300.0	89951
890-7066-26	BH24-24	Soluble	Solid	300.0	89951
MB 880-89951/1-A	Method Blank	Soluble	Solid	300.0	89951
LCS 880-89951/2-A	Lab Control Sample	Soluble	Solid	300.0	89951
LCSD 880-89951/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	89951
890-7066-7 MS	BH24-18	Soluble	Solid	300.0	89951
890-7066-7 MSD	BH24-18	Soluble	Solid	300.0	89951
890-7066-17 MS	BH24-21	Soluble	Solid	300.0	89951
890-7066-17 MSD	BH24-21	Soluble	Solid	300.0	89951

Analysis Batch: 90021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-27	BH24-24	Soluble	Solid	300.0	89953
890-7066-28	BH24-25	Soluble	Solid	300.0	89953
890-7066-29	BH24-25	Soluble	Solid	300.0	89953
890-7066-30	BH24-25	Soluble	Solid	300.0	89953
890-7066-31	BH24-26	Soluble	Solid	300.0	89953
890-7066-32	BH24-26	Soluble	Solid	300.0	89953
890-7066-33	BH24-26	Soluble	Solid	300.0	89953
890-7066-34	BH24-27	Soluble	Solid	300.0	89953
890-7066-35	BH24-27	Soluble	Solid	300.0	89953
890-7066-36	BH24-27	Soluble	Solid	300.0	89953
890-7066-37	BH24-28	Soluble	Solid	300.0	89953
890-7066-38	BH24-28	Soluble	Solid	300.0	89953
890-7066-39	BH24-28	Soluble	Solid	300.0	89953
890-7066-40	BH24-29	Soluble	Solid	300.0	89953
890-7066-41	BH24-29	Soluble	Solid	300.0	89953
890-7066-42	BH24-29	Soluble	Solid	300.0	89953
890-7066-43	BH24-30	Soluble	Solid	300.0	89953
890-7066-44	BH24-30	Soluble	Solid	300.0	89953
890-7066-45	BH24-30	Soluble	Solid	300.0	89953
890-7066-46	BH24-31	Soluble	Solid	300.0	89953
MB 880-89953/1-A	Method Blank	Soluble	Solid	300.0	89953
LCS 880-89953/2-A	Lab Control Sample	Soluble	Solid	300.0	89953
LCSD 880-89953/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	89953
890-7066-27 MS	BH24-24	Soluble	Solid	300.0	89953
890-7066-27 MSD	BH24-24	Soluble	Solid	300.0	89953
890-7066-37 MS	BH24-28	Soluble	Solid	300.0	89953
890-7066-37 MSD	BH24-28	Soluble	Solid	300.0	89953

Analysis Batch: 90031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-47	BH24-31	Soluble	Solid	300.0	89954
890-7066-48	BH24-31	Soluble	Solid	300.0	89954
890-7066-49	BH24-32	Soluble	Solid	300.0	89954
890-7066-50	BH24-32	Soluble	Solid	300.0	89954
890-7066-51	BH24-32	Soluble	Solid	300.0	89954
890-7066-52	BH24-33	Soluble	Solid	300.0	89954
890-7066-53	BH24-33	Soluble	Solid	300.0	89954
890-7066-54	BH24-33	Soluble	Solid	300.0	89954

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

HPLC/IC (Continued)

Analysis Batch: 90031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7066-55	BH24-34	Soluble	Solid	300.0	89954
890-7066-56	BH24-34	Soluble	Solid	300.0	89954
890-7066-57	BH24-34	Soluble	Solid	300.0	89954
890-7066-58	BH24-35	Soluble	Solid	300.0	89954
890-7066-59	BH24-35	Soluble	Solid	300.0	89954
890-7066-60	BH24-35	Soluble	Solid	300.0	89954
890-7066-61	BH24-36	Soluble	Solid	300.0	89954
890-7066-62	BH24-36	Soluble	Solid	300.0	89954
890-7066-63	BH24-36	Soluble	Solid	300.0	89954
890-7066-64	BH24-37	Soluble	Solid	300.0	89954
890-7066-65	BH24-37	Soluble	Solid	300.0	89954
890-7066-66	BH24-37	Soluble	Solid	300.0	89954
MB 880-89954/1-A	Method Blank	Soluble	Solid	300.0	89954
LCS 880-89954/2-A	Lab Control Sample	Soluble	Solid	300.0	89954
LCSD 880-89954/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	89954
890-7066-47 MS	BH24-31	Soluble	Solid	300.0	89954
890-7066-47 MSD	BH24-31	Soluble	Solid	300.0	89954
890-7066-57 MS	BH24-34	Soluble	Solid	300.0	89954
890-7066-57 MSD	BH24-34	Soluble	Solid	300.0	89954

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-16
Date Collected: 08/28/24 08:30
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 13:26	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	89950	09/03/24 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89989	09/06/24 00:23	SMC	EET MID

Client Sample ID: BH24-16
Date Collected: 08/28/24 08:33
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 15:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 14:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 14:14	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	89950	09/03/24 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89989	09/06/24 00:48	SMC	EET MID

Client Sample ID: BH24-16
Date Collected: 08/28/24 08:37
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 15:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 15:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 14:30	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	89950	09/03/24 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89989	09/06/24 00:56	SMC	EET MID

Client Sample ID: BH24-17
Date Collected: 08/28/24 08:43
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 16:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 16:05	SM	EET MID

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Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-17
Date Collected: 08/28/24 08:43
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90146	09/06/24 17:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 17:11	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	89950	09/03/24 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89989	09/06/24 09:46	SMC	EET MID

Client Sample ID: BH24-17
Date Collected: 08/28/24 08:46
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 16:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 16:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 17:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 17:28	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	89950	09/03/24 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89989	09/06/24 09:54	SMC	EET MID

Client Sample ID: BH24-17
Date Collected: 08/28/24 08:49
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 16:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 16:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 17:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 17:44	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	89950	09/03/24 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89989	09/06/24 10:02	SMC	EET MID

Client Sample ID: BH24-18
Date Collected: 08/28/24 08:55
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 17:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 17:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 18:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 18:00	TKC	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-18
Date Collected: 08/28/24 08:55
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90020	09/05/24 09:52	SMC	EET MID

Client Sample ID: BH24-18
Date Collected: 08/28/24 08:59
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 17:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 17:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 18:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 18:16	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90020	09/05/24 10:18	SMC	EET MID

Client Sample ID: BH24-18
Date Collected: 08/28/24 09:02
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 18:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 18:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 18:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 18:32	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90020	09/05/24 10:27	SMC	EET MID

Client Sample ID: BH24-19
Date Collected: 08/28/24 09:04
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 18:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 18:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 18:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 18:48	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	90020	09/05/24 10:36	SMC	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-19
Date Collected: 08/28/24 09:13
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 20:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 20:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 19:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 19:20	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	90020	09/05/24 10:45	SMC	EET MID

Client Sample ID: BH24-19
Date Collected: 08/28/24 09:16
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 20:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 20:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 19:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 19:37	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90020	09/05/24 11:11	SMC	EET MID

Client Sample ID: BH24-20
Date Collected: 08/28/24 09:23
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 21:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 21:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 19:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 19:53	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	90020	09/05/24 11:20	SMC	EET MID

Client Sample ID: BH24-20
Date Collected: 08/28/24 09:26
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 21:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 21:52	SM	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-20
Date Collected: 08/28/24 09:26
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90146	09/06/24 20:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 20:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	90020	09/05/24 11:29	SMC	EET MID

Client Sample ID: BH24-20
Date Collected: 08/28/24 09:31
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 22:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 22:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 20:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 20:25	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90020	09/05/24 11:38	SMC	EET MID

Client Sample ID: BH24-21
Date Collected: 08/28/24 09:35
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 22:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 22:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 20:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 20:41	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	90020	09/05/24 11:47	SMC	EET MID

Client Sample ID: BH24-21
Date Collected: 08/28/24 09:37
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 23:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 23:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 20:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 20:57	TKC	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-21
Date Collected: 08/28/24 09:37
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	90020	09/05/24 11:56	SMC	EET MID

Client Sample ID: BH24-21
Date Collected: 08/28/24 09:41
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/03/24 23:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 23:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 21:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 21:13	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90020	09/05/24 12:22	SMC	EET MID

Client Sample ID: BH24-22
Date Collected: 08/28/24 09:47
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/04/24 00:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 00:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 21:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 21:29	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	90020	09/05/24 12:31	SMC	EET MID

Client Sample ID: BH24-22
Date Collected: 08/28/24 09:51
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	89901	09/03/24 08:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89911	09/04/24 00:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 00:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/06/24 21:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89938	09/03/24 10:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90175	09/06/24 21:46	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90020	09/05/24 12:58	SMC	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-22
Date Collected: 08/28/24 09:54
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 16:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 16:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/04/24 23:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/04/24 23:51	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90020	09/05/24 13:06	SMC	EET MID

Client Sample ID: BH24-23
Date Collected: 08/28/24 09:59
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 17:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 00:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 00:38	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	90020	09/05/24 13:15	SMC	EET MID

Client Sample ID: BH24-23
Date Collected: 08/28/24 10:04
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 17:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 17:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 00:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 00:54	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90020	09/05/24 13:24	SMC	EET MID

Client Sample ID: BH24-23
Date Collected: 08/28/24 10:09
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 17:53	SM	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-23
Date Collected: 08/28/24 10:09
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90146	09/05/24 01:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 01:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90020	09/05/24 13:33	SMC	EET MID

Client Sample ID: BH24-24
Date Collected: 08/28/24 10:14
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 18:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 18:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 01:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 01:25	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90020	09/05/24 13:42	SMC	EET MID

Client Sample ID: BH24-24
Date Collected: 08/28/24 10:18
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 18:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 01:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 01:41	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	89951	09/03/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90020	09/05/24 13:51	SMC	EET MID

Client Sample ID: BH24-24
Date Collected: 08/28/24 10:22
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 18:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 01:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 01:57	TKC	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-24
Date Collected: 08/28/24 10:22
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 03:41	CH	EET MID

Client Sample ID: BH24-25
Date Collected: 08/28/24 10:27
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 19:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 02:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 02:12	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 04:06	CH	EET MID

Client Sample ID: BH24-25
Date Collected: 08/28/24 10:33
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 19:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 02:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 02:28	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 04:14	CH	EET MID

Client Sample ID: BH24-25
Date Collected: 08/28/24 10:36
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 19:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 02:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 02:44	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 04:22	CH	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-26
Date Collected: 08/28/24 10:40
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 21:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 21:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 03:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 03:15	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 04:30	CH	EET MID

Client Sample ID: BH24-26
Date Collected: 08/28/24 10:44
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 21:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 21:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 03:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 03:31	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 04:55	CH	EET MID

Client Sample ID: BH24-26
Date Collected: 08/28/24 10:48
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 22:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 22:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 03:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 03:47	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 05:03	CH	EET MID

Client Sample ID: BH24-27
Date Collected: 08/28/24 10:54
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 22:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 22:22	SM	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-27
Date Collected: 08/28/24 10:54
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90146	09/05/24 04:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 04:02	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 05:11	CH	EET MID

Client Sample ID: BH24-27
Date Collected: 08/28/24 10:59
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 22:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 22:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 04:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 04:19	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 05:19	CH	EET MID

Client Sample ID: BH24-27
Date Collected: 08/28/24 11:04
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 23:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 23:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 04:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 04:34	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 05:27	CH	EET MID

Client Sample ID: BH24-28
Date Collected: 08/28/24 11:12
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 23:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 23:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 04:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 04:50	TKC	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-28
Date Collected: 08/28/24 11:12
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 05:35	CH	EET MID

Client Sample ID: BH24-28
Date Collected: 08/28/24 11:15
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/03/24 23:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 23:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 05:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 05:06	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 06:00	CH	EET MID

Client Sample ID: BH24-28
Date Collected: 08/28/24 11:18
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/04/24 00:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 00:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 05:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 05:22	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 06:08	CH	EET MID

Client Sample ID: BH24-29
Date Collected: 08/28/24 11:21
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	89902	09/03/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89978	09/04/24 00:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 00:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 05:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89939	09/03/24 10:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90077	09/05/24 05:38	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 06:32	CH	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-29
Date Collected: 08/28/24 11:24
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 00:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 00:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/04/24 23:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/04/24 23:47	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 06:40	CH	EET MID

Client Sample ID: BH24-29
Date Collected: 08/28/24 11:27
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 01:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 01:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 00:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 00:30	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 06:49	CH	EET MID

Client Sample ID: BH24-30
Date Collected: 08/28/24 11:34
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 01:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 01:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 00:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 00:45	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 06:57	CH	EET MID

Client Sample ID: BH24-30
Date Collected: 08/28/24 11:37
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 01:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 01:48	SM	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-30
Date Collected: 08/28/24 11:37
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90146	09/05/24 00:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 00:59	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 07:05	CH	EET MID

Client Sample ID: BH24-30
Date Collected: 08/28/24 11:41
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 02:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 02:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 01:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 01:13	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 07:13	CH	EET MID

Client Sample ID: BH24-31
Date Collected: 08/28/24 11:49
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 02:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 02:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 01:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 01:27	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89953	09/03/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90021	09/05/24 07:21	CH	EET MID

Client Sample ID: BH24-31
Date Collected: 08/28/24 11:53
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 02:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 02:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 01:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 01:40	TKC	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-31
Date Collected: 08/28/24 11:53
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 04:42	SMC	EET MID

Client Sample ID: BH24-31
Date Collected: 08/28/24 11:57
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 03:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 03:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 01:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 01:55	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 05:09	SMC	EET MID

Client Sample ID: BH24-32
Date Collected: 08/28/24 12:10
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 03:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 03:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 02:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 02:09	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 05:17	SMC	EET MID

Client Sample ID: BH24-32
Date Collected: 08/28/24 12:14
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-50
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 03:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 03:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 02:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 02:25	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 05:26	SMC	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-32
Date Collected: 08/28/24 12:19
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-51
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 05:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 05:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 02:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 02:55	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 05:35	SMC	EET MID

Client Sample ID: BH24-33
Date Collected: 08/28/24 12:24
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 06:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 06:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 03:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 03:08	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 06:02	SMC	EET MID

Client Sample ID: BH24-33
Date Collected: 08/28/24 12:27
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 06:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 06:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 03:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 03:24	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 06:11	SMC	EET MID

Client Sample ID: BH24-33
Date Collected: 08/28/24 12:33
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 06:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 06:42	SM	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-33
Date Collected: 08/28/24 12:33
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90146	09/05/24 03:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 03:37	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 06:19	SMC	EET MID

Client Sample ID: BH24-34
Date Collected: 08/28/24 12:37
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-55
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 07:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 07:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 03:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 03:52	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 06:28	SMC	EET MID

Client Sample ID: BH24-34
Date Collected: 08/28/24 12:42
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-56
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 07:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 07:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 04:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 04:06	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 06:37	SMC	EET MID

Client Sample ID: BH24-34
Date Collected: 08/28/24 12:47
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 07:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 07:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 04:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 04:21	TKC	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-34
Date Collected: 08/28/24 12:47
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 06:46	SMC	EET MID

Client Sample ID: BH24-35
Date Collected: 08/28/24 12:53
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 08:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 08:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 04:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 04:34	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 07:12	SMC	EET MID

Client Sample ID: BH24-35
Date Collected: 08/28/24 12:58
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-59
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 08:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 08:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 04:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 04:49	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 07:21	SMC	EET MID

Client Sample ID: BH24-35
Date Collected: 08/28/24 01:04
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-60
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	89903	09/03/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/04/24 08:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/04/24 08:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/05/24 05:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	89940	09/03/24 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/05/24 05:03	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 07:48	SMC	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-36
Date Collected: 08/28/24 01:09
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-61
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	89909	09/03/24 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/03/24 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/04/24 16:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	89988	09/03/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/04/24 16:52	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 07:57	SMC	EET MID

Client Sample ID: BH24-36
Date Collected: 08/28/24 01:14
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-62
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	89909	09/03/24 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/03/24 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 13:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/04/24 17:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89988	09/03/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/04/24 17:35	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 08:06	SMC	EET MID

Client Sample ID: BH24-36
Date Collected: 08/28/24 01:19
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-63
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	89909	09/03/24 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/03/24 13:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 13:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/04/24 17:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	89988	09/03/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/04/24 17:49	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 08:14	SMC	EET MID

Client Sample ID: BH24-37
Date Collected: 08/28/24 01:25
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-64
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89909	09/03/24 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/03/24 14:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 14:10	SM	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Client Sample ID: BH24-37
Date Collected: 08/28/24 01:25
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-64
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90146	09/04/24 18:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89988	09/03/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/04/24 18:03	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	90031	09/05/24 08:23	SMC	EET MID

Client Sample ID: BH24-37
Date Collected: 08/28/24 01:35
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-65
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	89909	09/03/24 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/03/24 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 14:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/04/24 18:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89988	09/03/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/04/24 18:17	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	90031	09/05/24 08:32	SMC	EET MID

Client Sample ID: BH24-37
Date Collected: 08/28/24 01:40
Date Received: 08/30/24 08:50

Lab Sample ID: 890-7066-66
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	89909	09/03/24 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89913	09/03/24 14:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90066	09/03/24 14:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			90146	09/04/24 18:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89988	09/03/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90080	09/04/24 18:32	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89954	09/03/24 11:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90031	09/05/24 08:41	SMC	EET MID

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

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

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7066-1	BH24-16	Solid	08/28/24 08:30	08/30/24 08:50	1
890-7066-2	BH24-16	Solid	08/28/24 08:33	08/30/24 08:50	3
890-7066-3	BH24-16	Solid	08/28/24 08:37	08/30/24 08:50	4
890-7066-4	BH24-17	Solid	08/28/24 08:43	08/30/24 08:50	1
890-7066-5	BH24-17	Solid	08/28/24 08:46	08/30/24 08:50	3
890-7066-6	BH24-17	Solid	08/28/24 08:49	08/30/24 08:50	4
890-7066-7	BH24-18	Solid	08/28/24 08:55	08/30/24 08:50	1
890-7066-8	BH24-18	Solid	08/28/24 08:59	08/30/24 08:50	3
890-7066-9	BH24-18	Solid	08/28/24 09:02	08/30/24 08:50	4
890-7066-10	BH24-19	Solid	08/28/24 09:04	08/30/24 08:50	1
890-7066-11	BH24-19	Solid	08/28/24 09:13	08/30/24 08:50	3
890-7066-12	BH24-19	Solid	08/28/24 09:16	08/30/24 08:50	4
890-7066-13	BH24-20	Solid	08/28/24 09:23	08/30/24 08:50	1
890-7066-14	BH24-20	Solid	08/28/24 09:26	08/30/24 08:50	3
890-7066-15	BH24-20	Solid	08/28/24 09:31	08/30/24 08:50	4
890-7066-16	BH24-21	Solid	08/28/24 09:35	08/30/24 08:50	1
890-7066-17	BH24-21	Solid	08/28/24 09:37	08/30/24 08:50	3
890-7066-18	BH24-21	Solid	08/28/24 09:41	08/30/24 08:50	4
890-7066-19	BH24-22	Solid	08/28/24 09:47	08/30/24 08:50	1
890-7066-20	BH24-22	Solid	08/28/24 09:51	08/30/24 08:50	3
890-7066-21	BH24-22	Solid	08/28/24 09:54	08/30/24 08:50	4
890-7066-22	BH24-23	Solid	08/28/24 09:59	08/30/24 08:50	1
890-7066-23	BH24-23	Solid	08/28/24 10:04	08/30/24 08:50	3
890-7066-24	BH24-23	Solid	08/28/24 10:09	08/30/24 08:50	4
890-7066-25	BH24-24	Solid	08/28/24 10:14	08/30/24 08:50	1
890-7066-26	BH24-24	Solid	08/28/24 10:18	08/30/24 08:50	3
890-7066-27	BH24-24	Solid	08/28/24 10:22	08/30/24 08:50	4
890-7066-28	BH24-25	Solid	08/28/24 10:27	08/30/24 08:50	1
890-7066-29	BH24-25	Solid	08/28/24 10:33	08/30/24 08:50	3
890-7066-30	BH24-25	Solid	08/28/24 10:36	08/30/24 08:50	4
890-7066-31	BH24-26	Solid	08/28/24 10:40	08/30/24 08:50	1
890-7066-32	BH24-26	Solid	08/28/24 10:44	08/30/24 08:50	3
890-7066-33	BH24-26	Solid	08/28/24 10:48	08/30/24 08:50	4
890-7066-34	BH24-27	Solid	08/28/24 10:54	08/30/24 08:50	1
890-7066-35	BH24-27	Solid	08/28/24 10:59	08/30/24 08:50	3
890-7066-36	BH24-27	Solid	08/28/24 11:04	08/30/24 08:50	4
890-7066-37	BH24-28	Solid	08/28/24 11:12	08/30/24 08:50	1
890-7066-38	BH24-28	Solid	08/28/24 11:15	08/30/24 08:50	3
890-7066-39	BH24-28	Solid	08/28/24 11:18	08/30/24 08:50	4
890-7066-40	BH24-29	Solid	08/28/24 11:21	08/30/24 08:50	1
890-7066-41	BH24-29	Solid	08/28/24 11:24	08/30/24 08:50	3
890-7066-42	BH24-29	Solid	08/28/24 11:27	08/30/24 08:50	4
890-7066-43	BH24-30	Solid	08/28/24 11:34	08/30/24 08:50	1
890-7066-44	BH24-30	Solid	08/28/24 11:37	08/30/24 08:50	3
890-7066-45	BH24-30	Solid	08/28/24 11:41	08/30/24 08:50	4
890-7066-46	BH24-31	Solid	08/28/24 11:49	08/30/24 08:50	1
890-7066-47	BH24-31	Solid	08/28/24 11:53	08/30/24 08:50	3
890-7066-48	BH24-31	Solid	08/28/24 11:57	08/30/24 08:50	4
890-7066-49	BH24-32	Solid	08/28/24 12:10	08/30/24 08:50	1
890-7066-50	BH24-32	Solid	08/28/24 12:14	08/30/24 08:50	3
890-7066-51	BH24-32	Solid	08/28/24 12:19	08/30/24 08:50	4
890-7066-52	BH24-33	Solid	08/28/24 12:24	08/30/24 08:50	1
890-7066-53	BH24-33	Solid	08/28/24 12:27	08/30/24 08:50	3
890-7066-54	BH24-33	Solid	08/28/24 12:33	08/30/24 08:50	4

Sample Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7066-1
SDG: 24E-03618

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7066-55	BH24-34	Solid	08/28/24 12:37	08/30/24 08:50	1
890-7066-56	BH24-34	Solid	08/28/24 12:42	08/30/24 08:50	3
890-7066-57	BH24-34	Solid	08/28/24 12:47	08/30/24 08:50	4
890-7066-58	BH24-35	Solid	08/28/24 12:53	08/30/24 08:50	1
890-7066-59	BH24-35	Solid	08/28/24 12:58	08/30/24 08:50	3
890-7066-60	BH24-35	Solid	08/28/24 01:04	08/30/24 08:50	4
890-7066-61	BH24-36	Solid	08/28/24 01:09	08/30/24 08:50	1
890-7066-62	BH24-36	Solid	08/28/24 01:14	08/30/24 08:50	3
890-7066-63	BH24-36	Solid	08/28/24 01:19	08/30/24 08:50	4
890-7066-64	BH24-37	Solid	08/28/24 01:25	08/30/24 08:50	1
890-7066-65	BH24-37	Solid	08/28/24 01:35	08/30/24 08:50	3
890-7066-66	BH24-37	Solid	08/28/24 01:40	08/30/24 08:50	4

Page 204 of 468

1 OF 7

Chain of Custody

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EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

RPlogger@vertexresource.com

www.xenco.com Page _____ of _____

Project Manager:	Chad Hensley	Bill to: (if different)	Dalbo Holdings Inc
Company Name:	Vertex resource	Company Name:	Dalbo Holdings Inc
Address:	3101 Boyd dr	Address:	355 South 1000 East
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	Vernal, UTah, 84078
Phone:	575-361-9639	Email:	Tgentz@Dalboholdings.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: ~~Level II~~ ☐ ~~Level III~~ ☐ ~~PST/UST~~ ☐ ~~TRRP~~ ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Landes to SRO line	Turn Around	
Project Number:	24E-03618	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Riley Plogger	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	8833		

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	Tmaaaa?
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-2.0
Total Containers:		Corrected Temperature:	-1.8

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

ANALYSIS REQUEST

890-7066 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	Parameters: BTex	TPH (GRO, DRO, MRO)	Chloride	Sample Comments
BH24-16	soil	8.28.24	8:30	1	grab	1		X	X	X	
16			8:33	3							
16			8:37	4							
17			8:43	1							
17			8:46	3							
17			8:49	4							
18			8:55	1							
18			8:59	3							
18			9:02	4							
19			9:04	1							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1		8:50 8-30	2		
3			4		
5			6		

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Received by OCD: 3/14/2025 2:22:03 PM
Page 119 of 127
Released to Imaging: 4/3/2025 2:18:49 PM
9/9/2024

Page 205 of 468

2 of 7

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Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	C. Hensley	Bill to: (if different)	DHI
Company Name:	Vertex	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	TGentz@Dalbonoidings.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Lanes to SRO line	Turn Around	☑ Routine ☐ Rush
Project Number:	24E-03618	Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	B. Piggsr		
PO #:	8833		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH (GRO, DRO, mRO)	Chloride	Sample Comments
BH24-19	soil	8.28.24	9:13	3	Grab	1		X	X	X	
19			9:16	4							
20			9:23	1							
20			9:26	3							
20			9:31	4							
21			9:35	1							
21			9:37	3							
21			9:41	4							
22			9:47	1							
22			9:51	3							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8:50 8/30	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Page 120 of 127
9/9/2024
Received by OCD: 3/14/2025 2:22:03 PM
Released to Imaging: 4/3/2025 2:18:49 PM

Page 206 of 468

3 of 7

Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page _____ of _____

RProgger@vertexresource.com

Project Manager:	C. Hensley	Bill to: (if different)	DHI
Company Name:	Vertex	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:	TGentz@DalboHoldings.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Blanco to SDO line	Turn Around	
Project Number:	24E-03618	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	R. Progger	TAT starts the day received by ~~the lab, if received by 4:30pm~~	
PO #:	8833		

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	BTEX	TPH (GRO, DRO, MRO)	Chloride	Sample Comments
BH24-22	soil	8.28.24	9:54	4		1		X	X	X	
23			9:59	1							
23			10:04	3							
23			10:09	4							
24			10:14	1							
24			10:18	3							
24			10:22	4							
25			10:27	1							
25			10:33	3							
25			10:36	4							

Parameters

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1		8:50 8/30	2		
3			4		
5			6		

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9/9/2024
Page 121 of 127
Received by OCD: 3/14/2025 2:22:03 PM
Released to Imaging: 4/3/2025 2:18:49 PM

Page 207 of 468

4 of 7

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Work Order No: _____

www.xenco.com Page _____ of _____

RPlogger & vertex resource.com

Project Manager:	C. Hensley	Bill to: (if different)	DHI
Company Name:	Vertex	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	TGentz@Dalbonoldings.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Lyndes to SEO line	Turn Around	
Project Number:	24E-03618	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	R.Plogger	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	8833		

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH (GRO, DRO, MRO)	Chloride	Sample Comments
BH24-26	soil	8.28.24	10:40	1		1		x	x	x	
26			10:44	3							
26			10:48	4							
27			10:54	1							
27			10:59	3							
27			11:04	4							
28			11:12	1							
28			11:15	3							
28			11:18	4							
29			11:21	1							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8:50 8/30			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Page 122 of 127

9/9/2024

Received by OCD: 3/14/2025 2:22:03 PM

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Page 208 of 468

5 OF 7

Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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RProgger @vertexresource.com

Project Manager:	Chad Hensley	Bill to: (if different)	DHI
Company Name:	Vertex Resource	Company Name:	
Address:	3101 Boyd dr	Address:	355 South 1000 East
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	Vernal, Utah, 84078
Phone:	575-361-9639	Email:	TGentry@DalboHoldings.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Landes to SDO line	Turn Around	
Project Number:	24E-03618	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	R Progger	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	8833		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	Parameters: BTex	TPH (GRO, DRO, mRO)	Chloride	Sample Comments
BH24-29	soil	8.28.24	11:24	3		2		x	x	x	
29			11:27	4							
30			11:34	1							
30			11:37	3							
30			11:41	4							
31			11:49	1							
31			11:53	3							
31			11:57	4							
32			12:10	1							
32			12:14	3							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1		8:50 8/29	2		
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5			6		

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Page 123 of 127

9/9/2024

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Page 209 of 468

6 OF 7

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EL Paso, TX (915) 585-3443. Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550. Carlsbad, NM (575) 988-3199

Work Order No: Cost Center #: 1082151001,
Incident #: nAPP2318831816

www.xenco.com Page 6 of 7

CC: ~~SDixon@vertex.ca for Final Report~~
RPlogger@vertexresource.com

Project Manager:	Chad Hensley	Bill to: (if different)	DHI
Company Name:	Vertex Resource Services	Company Name:	Dalbo Holdings
~~Address~~:	3101 Boyd Drive	Address:	355 South 1600 East
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	Vernal, Utah, 84078
Phone:	575-361-9639	Email:	Tgentz@Dalboholdings.com
Project Name:	Landes to SRO line	Turn Around	✔Routine ☐ Rush
Project Number:	24E-03618	Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Riley Plogger		
PO #:	8833		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RR ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
~~NaOH+Ascorbic Acid: SAPC~~

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (ft)	Grab/Comp	# of Cont	BTEX (8021)	TPH 8015D(GRO / DRO / MRO)	Chloride	Sample Comments
BH24-32	Soil	8.28.24	12:19	4	Grab	1	X	X	X	
33	Soil		12:24	1			X	X	X	
33	Soil		12:27	3			X	X	X	
33	Soil		12:33	4			X	X	X	
34	Soil		12:37	1			X	X	X	
34	Soil		12:42	3			X	X	X	
34	Soil		12:47	4			X	X	X	
35	Soil		12:53	1			X	X	X	
35	Soil		12:58	3			X	X	X	
35	Soil		1:04	4			X	X	X	

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $86.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

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1		8:50 8/29	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

Page 124 of 127
9/9/2024
Received by OCD: 3/14/2025 2:22:03 PM
Released to Imaging: 4/3/2025 2:18:49 PM

Page 210 of 468

7 of 7

9/9/2024

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: Cost Center #: 1082151001,
Incident #: nAPP2318831816

www.xenco.com Page 7 of 9

CC: ~~CDixon@vertex.ca for Final Report~~
RPrugger@vertexresource.com

Project Manager:	C. Hensley	Bill to: (if different)	DHI
Company Name:	Vertex Resource Services	Company Name:	
Address:	3101 Boyd Drive	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:		Email:	
Project Name:	Lances to SEU line	Turn Around	
Project Number:	24E-03618	✓ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	R. Prugger	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	8833		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RR ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO3
Zn Acetate+NaOH: Zn
~~NaOH+Ascorbic Acid: SAPC~~

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (ft)	Grab/ Comp	# of Cont	Pres. Code	BTEX (8021)	TPH 8015D(GRO / DRO / MRO)	Chloride
BH24-36	Soil	8.28.24	1:09	1	Grab			X	X	X
36	Soil		1:14	3				X	X	X
36	Soil		1:19	4				X	X	X
37	Soil		1:25	1				X	X	X
37	Soil		1:35	3				X	X	X
37	Soil		1:40	4				X	X	X
	Soil							X	X	X
	Soil							X	X	X
	Soil							X	X	X
	Soil							X	X	X

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9:50 8/30	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Page 125 of 127

Received by OCD: 3/14/2025 2:22:03 PM

Released to Imaging: 4/3/2025 2:18:49 PM

Login Sample Receipt Checklist

Client: Vertex

Job Number: 890-7066-1
SDG Number: 24E-03618

Login Number: 7066
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Vertex

Job Number: 890-7066-1
SDG Number: 24E-03618

Login Number: 7066
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 09/03/24 08:21 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 8/20/2024 5:05:58 PM

JOB DESCRIPTION

Landes to SRO Line
24E - 03618

JOB NUMBER

890-7015-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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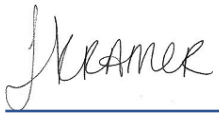
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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

Client: Vertex
Project/Site: Landes to SRO Line

Laboratory Job ID: 890-7015-1
SDG: 24E - 03618

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 55
QC Sample Results 59
QC Association Summary 71
Lab Chronicle 84
Certification Summary 103
Method Summary 104
Sample Summary 105
Chain of Custody 107
Receipt Checklists 113

Definitions/Glossary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Qualifiers

GC VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Vertex
Project: Landes to SRO Line

Job ID: 890-7015-1

Job ID: 890-7015-1 Eurofins Carlsbad

Job Narrative
890-7015-1

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 8/13/2024 1:38 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH 24 - 01 (890-7015-1), BH 24 - 01 (890-7015-2), BH 24 - 01 (890-7015-3), BH 24 - 01 (890-7015-4), BH 24 - 02 (890-7015-5), BH 24 - 02 (890-7015-6), BH 24 - 02 (890-7015-7), BH 24 - 02 (890-7015-8), BH 24 - 03 (890-7015-9), BH 24 - 03 (890-7015-10), BH 24 - 03 (890-7015-11), BH 24 - 03 (890-7015-12), BH 24 - 04 (890-7015-13), BH 24 - 04 (890-7015-14), BH 24 - 04 (890-7015-15), BH 24 - 04 (890-7015-16), BH 24 - 05 (890-7015-17), BH 24 - 05 (890-7015-18), BH 24 - 05 (890-7015-19), BH 24 - 05 (890-7015-20), BH 24 - 06 (890-7015-21), BH 24 - 06 (890-7015-22), BH 24 - 06 (890-7015-23), BH 24 - 06 (890-7015-24), BH 24 - 07 (890-7015-25), BH 24 - 07 (890-7015-26), BH 24 - 07 (890-7015-27), BH 24 - 07 (890-7015-28), BH 24 - 08 (890-7015-29), BH 24 - 08 (890-7015-30), BH 24 - 08 (890-7015-31), BH 24 - 08 (890-7015-32), BH 24 - 09 (890-7015-33), BH 24 - 09 (890-7015-34), BH 24 - 09 (890-7015-35), BH 24 - 09 (890-7015-36), BH 24 - 10 (890-7015-37), BH 24 - 10 (890-7015-38), BH 24 - 10 (890-7015-39), BH 24 - 10 (890-7015-40), BH 24 - 11 (890-7015-41), BH 24 - 11 (890-7015-42), BH 24 - 11 (890-7015-43), BH 24 - 11 (890-7015-44), BH 24 - 12 (890-7015-45), BH 24 - 12 (890-7015-46), BH 24 - 12 (890-7015-47), BH 24 - 12 (890-7015-48), BH 24 - 13 (890-7015-49), BH 24 - 13 (890-7015-50), BH 24 - 13 (890-7015-51), BH 24 - 13 (890-7015-52), BH 24 - 14 (890-7015-53), BH 24 - 14 (890-7015-54), BH 24 - 14 (890-7015-55), BH 24 - 14 (890-7015-56), BH 24 - 15 (890-7015-57), BH 24 - 15 (890-7015-58), BH 24 - 15 (890-7015-59) and BH 24 - 15 (890-7015-60).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: BH 24 - 10 (890-7015-39). Evidence of matrix interferences is not obvious.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-88430 and analytical batch 880-88471 was outside the control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-88471 recovered under the lower control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within passing CCV; therefore, the data have been reported

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-88510 and analytical batch 880-88471 was outside the control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-88430 and analytical batch 880-88471 was outside control limits. Sample non-homogeneity is suspected.

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

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH 24 - 09 (890-7015-34). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The closing continuing calibration verification (CCVC) associated with batch 880-88413 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the

Case Narrative

Client: Vertex Job ID: 890-7015-1
Project: Landes to SRO Line

Job ID: 890-7015-1 (Continued) Eurofins Carlsbad

affected analytes; therefore, the data have been reported.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-88415 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-88398 and analytical batch 880-88415 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH 24 - 04 (890-7015-13), BH 24 - 11 (890-7015-41), (LCS 880-88398/2-A) and (LCSD 880-88398/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-88438 and analytical batch 880-88468 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-88437 and analytical batch 880-88442 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 01

Lab Sample ID: 890-7015-1
Matrix: Solid
Date Collected: 08/09/24 09:34
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F2	0.00198		mg/Kg		08/14/24 13:29	08/15/24 12:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 12:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 12:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/14/24 13:29	08/15/24 12:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 12:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/14/24 13:29	08/15/24 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*08/14/24 13:29*	*08/15/24 12:47*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/14/24 13:29*	*08/15/24 12:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/15/24 12:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/14/24 14:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/14/24 11:10	08/14/24 14:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/14/24 11:10	08/14/24 14:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/14/24 11:10	08/14/24 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*08/14/24 11:10*	*08/14/24 14:54*	*1*
o-Terphenyl	*117*		*70 - 130*	*08/14/24 11:10*	*08/14/24 14:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.5**	**F1**	5.04		mg/Kg			08/15/24 22:14	1

Client Sample ID: BH 24 - 01

Lab Sample ID: 890-7015-2
Matrix: Solid
Date Collected: 08/09/24 09:38
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 13:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 13:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 13:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/14/24 13:29	08/15/24 13:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 13:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/14/24 13:29	08/15/24 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/14/24 13:29*	*08/15/24 13:15*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 01

Lab Sample ID: 890-7015-2
Matrix: Solid
Date Collected: 08/09/24 09:38
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/14/24 13:29*	*08/15/24 13:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/15/24 13:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			08/14/24 15:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		08/14/24 11:10	08/14/24 15:46	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		08/14/24 11:10	08/14/24 15:46	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		08/14/24 11:10	08/14/24 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*08/14/24 11:10*	*08/14/24 15:46*	*1*
o-Terphenyl	*117*		*70 - 130*	*08/14/24 11:10*	*08/14/24 15:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.4**		4.95	mg/Kg			08/15/24 22:36	1

Client Sample ID: BH 24 - 01

Lab Sample ID: 890-7015-3
Matrix: Solid
Date Collected: 08/09/24 09:42
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/14/24 13:29	08/15/24 13:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/14/24 13:29	08/15/24 13:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/14/24 13:29	08/15/24 13:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/14/24 13:29	08/15/24 13:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/14/24 13:29	08/15/24 13:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/14/24 13:29	08/15/24 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*08/14/24 13:29*	*08/15/24 13:42*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/14/24 13:29*	*08/15/24 13:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/15/24 13:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			08/14/24 16:03	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 01

Lab Sample ID: 890-7015-3
Matrix: Solid
Date Collected: 08/09/24 09:42
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/14/24 11:10	08/14/24 16:03	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/14/24 11:10	08/14/24 16:03	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/14/24 11:10	08/14/24 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*08/14/24 11:10*	*08/14/24 16:03*	*1*
o-Terphenyl	*113*		*70 - 130*	*08/14/24 11:10*	*08/14/24 16:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.0**		5.05		mg/Kg			08/15/24 22:43	1

Client Sample ID: BH 24 - 01

Lab Sample ID: 890-7015-4
Matrix: Solid
Date Collected: 08/09/24 09:45
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:29	08/15/24 14:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:29	08/15/24 14:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:29	08/15/24 14:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/14/24 13:29	08/15/24 14:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:29	08/15/24 14:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/14/24 13:29	08/15/24 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/14/24 13:29*	*08/15/24 14:09*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/14/24 13:29*	*08/15/24 14:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/15/24 14:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/14/24 16:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/14/24 11:10	08/14/24 16:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/14/24 11:10	08/14/24 16:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/14/24 11:10	08/14/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*08/14/24 11:10*	*08/14/24 16:20*	*1*
o-Terphenyl	*103*		*70 - 130*	*08/14/24 11:10*	*08/14/24 16:20*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 01

Lab Sample ID: 890-7015-4
Matrix: Solid
Date Collected: 08/09/24 09:45
Date Received: 08/13/24 13:38
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.9		4.96		mg/Kg			08/15/24 22:50	1

Client Sample ID: BH 24 - 02

Lab Sample ID: 890-7015-5
Matrix: Solid
Date Collected: 08/09/24 09:54
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 14:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 14:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 14:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/14/24 13:29	08/15/24 14:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 14:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/14/24 13:29	08/15/24 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/14/24 13:29*	*08/15/24 14:36*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/14/24 13:29*	*08/15/24 14:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/15/24 14:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/14/24 16:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/14/24 11:10	08/14/24 16:37	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/14/24 11:10	08/14/24 16:37	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/14/24 11:10	08/14/24 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*08/14/24 11:10*	*08/14/24 16:37*	*1*
o-Terphenyl	*117*		*70 - 130*	*08/14/24 11:10*	*08/14/24 16:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.82		4.98		mg/Kg			08/15/24 22:58	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 02

Lab Sample ID: 890-7015-6
Matrix: Solid
Date Collected: 08/09/24 09:59
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 15:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 15:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 15:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/14/24 13:29	08/15/24 15:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 15:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/14/24 13:29	08/15/24 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*08/14/24 13:29*	*08/15/24 15:03*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/14/24 13:29*	*08/15/24 15:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/15/24 15:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/14/24 16:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/14/24 11:10	08/14/24 16:54	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/14/24 11:10	08/14/24 16:54	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/14/24 11:10	08/14/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*08/14/24 11:10*	*08/14/24 16:54*	*1*
o-Terphenyl	*110*		*70 - 130*	*08/14/24 11:10*	*08/14/24 16:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.8**		5.05		mg/Kg			08/15/24 23:20	1

Client Sample ID: BH 24 - 02

Lab Sample ID: 890-7015-7
Matrix: Solid
Date Collected: 08/09/24 10:05
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 15:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 15:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 15:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/14/24 13:29	08/15/24 15:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 15:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/14/24 13:29	08/15/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*08/14/24 13:29*	*08/15/24 15:31*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 02

Lab Sample ID: 890-7015-7
Matrix: Solid
Date Collected: 08/09/24 10:05
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/14/24 13:29*	*08/15/24 15:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/15/24 15:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			08/14/24 17:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		08/14/24 11:10	08/14/24 17:12	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		08/14/24 11:10	08/14/24 17:12	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		08/14/24 11:10	08/14/24 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*111*		*70 - 130*	*08/14/24 11:10*	*08/14/24 17:12*	*1*
o-Terphenyl	*114*		*70 - 130*	*08/14/24 11:10*	*08/14/24 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			08/15/24 23:27	1

Client Sample ID: BH 24 - 02

Lab Sample ID: 890-7015-8
Matrix: Solid
Date Collected: 08/09/24 10:09
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:29	08/15/24 15:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:29	08/15/24 15:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:29	08/15/24 15:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/14/24 13:29	08/15/24 15:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:29	08/15/24 15:58	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/14/24 13:29	08/15/24 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/14/24 13:29*	*08/15/24 15:58*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/14/24 13:29*	*08/15/24 15:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/15/24 15:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			08/14/24 17:29	1

Eurofins Carlsbad

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 02

Lab Sample ID: 890-7015-8
Matrix: Solid
Date Collected: 08/09/24 10:09
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/14/24 11:10	08/14/24 17:29	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/14/24 11:10	08/14/24 17:29	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/14/24 11:10	08/14/24 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*08/14/24 11:10*	*08/14/24 17:29*	*1*
o-Terphenyl	*117*		*70 - 130*	*08/14/24 11:10*	*08/14/24 17:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.4**		5.00		mg/Kg			08/15/24 23:35	1

Client Sample ID: BH 24 - 03

Lab Sample ID: 890-7015-9
Matrix: Solid
Date Collected: 08/09/24 10:12
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 16:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 16:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 16:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/14/24 13:29	08/15/24 16:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 16:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/14/24 13:29	08/15/24 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/14/24 13:29*	*08/15/24 16:25*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/14/24 13:29*	*08/15/24 16:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/15/24 16:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/14/24 17:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/14/24 11:10	08/14/24 17:51	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/14/24 11:10	08/14/24 17:51	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/14/24 11:10	08/14/24 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*08/14/24 11:10*	*08/14/24 17:51*	*1*
o-Terphenyl	*124*		*70 - 130*	*08/14/24 11:10*	*08/14/24 17:51*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 03

Lab Sample ID: 890-7015-9
Matrix: Solid
Date Collected: 08/09/24 10:12
Date Received: 08/13/24 13:38
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.0		5.00		mg/Kg			08/15/24 23:42	1

Client Sample ID: BH 24 - 03

Lab Sample ID: 890-7015-10
Matrix: Solid
Date Collected: 08/09/24 10:15
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:29	08/15/24 16:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:29	08/15/24 16:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:29	08/15/24 16:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/14/24 13:29	08/15/24 16:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:29	08/15/24 16:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/14/24 13:29	08/15/24 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/14/24 13:29*	*08/15/24 16:53*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/14/24 13:29*	*08/15/24 16:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/15/24 16:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/14/24 18:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/14/24 11:10	08/14/24 18:09	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/14/24 11:10	08/14/24 18:09	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/14/24 11:10	08/14/24 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*08/14/24 11:10*	*08/14/24 18:09*	*1*
o-Terphenyl	*114*		*70 - 130*	*08/14/24 11:10*	*08/14/24 18:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.8		5.01		mg/Kg			08/15/24 23:50	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 03

Lab Sample ID: 890-7015-11
Matrix: Solid
Date Collected: 08/09/24 10:20
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 18:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 18:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 18:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/14/24 13:29	08/15/24 18:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 18:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/14/24 13:29	08/15/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/14/24 13:29*	*08/15/24 18:42*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/14/24 13:29*	*08/15/24 18:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/24 18:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/14/24 18:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/14/24 11:10	08/14/24 18:42	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/14/24 11:10	08/14/24 18:42	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/14/24 11:10	08/14/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*08/14/24 11:10*	*08/14/24 18:42*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/14/24 11:10*	*08/14/24 18:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.55**		5.01		mg/Kg			08/15/24 23:57	1

Client Sample ID: BH 24 - 03

Lab Sample ID: 890-7015-12
Matrix: Solid
Date Collected: 08/09/24 10:24
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 19:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 19:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 19:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/14/24 13:29	08/15/24 19:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 19:09	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/14/24 13:29	08/15/24 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/14/24 13:29*	*08/15/24 19:09*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 03

Lab Sample ID: 890-7015-12
Matrix: Solid
Date Collected: 08/09/24 10:24
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/14/24 13:29*	*08/15/24 19:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/15/24 19:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/14/24 18:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/14/24 11:10	08/14/24 18:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/14/24 11:10	08/14/24 18:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/14/24 11:10	08/14/24 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*08/14/24 11:10*	*08/14/24 18:59*	*1*
o-Terphenyl	*126*		*70 - 130*	*08/14/24 11:10*	*08/14/24 18:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.1**		4.96	mg/Kg			08/16/24 00:19	1

Client Sample ID: BH 24 - 04

Lab Sample ID: 890-7015-13
Matrix: Solid
Date Collected: 08/09/24 10:29
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/14/24 13:29	08/15/24 19:36	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/14/24 13:29	08/15/24 19:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/14/24 13:29	08/15/24 19:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/14/24 13:29	08/15/24 19:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/14/24 13:29	08/15/24 19:36	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/14/24 13:29	08/15/24 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/14/24 13:29*	*08/15/24 19:36*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/14/24 13:29*	*08/15/24 19:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			08/15/24 19:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			08/14/24 19:16	1

Eurofins Carlsbad

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 04

Lab Sample ID: 890-7015-13
Matrix: Solid
Date Collected: 08/09/24 10:29
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/14/24 11:10	08/14/24 19:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/14/24 11:10	08/14/24 19:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/14/24 11:10	08/14/24 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*08/14/24 11:10*	*08/14/24 19:16*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*08/14/24 11:10*	*08/14/24 19:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.5**		4.98		mg/Kg			08/16/24 00:27	1

Client Sample ID: BH 24 - 04

Lab Sample ID: 890-7015-14
Matrix: Solid
Date Collected: 08/09/24 10:35
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:29	08/15/24 20:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:29	08/15/24 20:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:29	08/15/24 20:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/14/24 13:29	08/15/24 20:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:29	08/15/24 20:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/14/24 13:29	08/15/24 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/14/24 13:29*	*08/15/24 20:04*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/14/24 13:29*	*08/15/24 20:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/15/24 20:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			08/14/24 19:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/14/24 11:10	08/14/24 19:33	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/14/24 11:10	08/14/24 19:33	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/14/24 11:10	08/14/24 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*08/14/24 11:10*	*08/14/24 19:33*	*1*
o-Terphenyl	*117*		*70 - 130*	*08/14/24 11:10*	*08/14/24 19:33*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 04

Lab Sample ID: 890-7015-14
Matrix: Solid
Date Collected: 08/09/24 10:35
Date Received: 08/13/24 13:38
Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.8		4.96		mg/Kg			08/16/24 00:49	1

Client Sample ID: BH 24 - 04

Lab Sample ID: 890-7015-15
Matrix: Solid
Date Collected: 08/09/24 10:38
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 20:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 20:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 20:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/14/24 13:29	08/15/24 20:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 20:31	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/14/24 13:29	08/15/24 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/14/24 13:29*	*08/15/24 20:31*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/14/24 13:29*	*08/15/24 20:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/15/24 20:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/14/24 19:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/14/24 11:10	08/14/24 19:50	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/14/24 11:10	08/14/24 19:50	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/14/24 11:10	08/14/24 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*08/14/24 11:10*	*08/14/24 19:50*	*1*
o-Terphenyl	*111*		*70 - 130*	*08/14/24 11:10*	*08/14/24 19:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.3		5.02		mg/Kg			08/16/24 00:56	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 04

Lab Sample ID: 890-7015-16
Matrix: Solid
Date Collected: 08/09/24 10:43
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 20:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 20:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 20:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/14/24 13:29	08/15/24 20:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 20:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/14/24 13:29	08/15/24 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/14/24 13:29*	*08/15/24 20:58*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/14/24 13:29*	*08/15/24 20:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/15/24 20:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/14/24 20:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/14/24 11:10	08/14/24 20:07	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/14/24 11:10	08/14/24 20:07	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/14/24 11:10	08/14/24 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*08/14/24 11:10*	*08/14/24 20:07*	*1*
o-Terphenyl	*128*		*70 - 130*	*08/14/24 11:10*	*08/14/24 20:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.7**		4.97		mg/Kg			08/16/24 01:04	1

Client Sample ID: BH 24 - 05

Lab Sample ID: 890-7015-17
Matrix: Solid
Date Collected: 08/09/24 10:47
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:29	08/15/24 21:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:29	08/15/24 21:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:29	08/15/24 21:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/14/24 13:29	08/15/24 21:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:29	08/15/24 21:25	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/14/24 13:29	08/15/24 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/14/24 13:29*	*08/15/24 21:25*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 05

Lab Sample ID: 890-7015-17
Matrix: Solid
Date Collected: 08/09/24 10:47
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/14/24 13:29*	*08/15/24 21:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/15/24 21:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			08/14/24 20:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		08/14/24 11:10	08/14/24 20:24	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		08/14/24 11:10	08/14/24 20:24	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		08/14/24 11:10	08/14/24 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*08/14/24 11:10*	*08/14/24 20:24*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/14/24 11:10*	*08/14/24 20:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.5**		4.98	mg/Kg			08/16/24 01:11	1

Client Sample ID: BH 24 - 05

Lab Sample ID: 890-7015-18
Matrix: Solid
Date Collected: 08/09/24 10:51
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:29	08/15/24 21:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:29	08/15/24 21:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:29	08/15/24 21:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/14/24 13:29	08/15/24 21:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:29	08/15/24 21:52	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/14/24 13:29	08/15/24 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/14/24 13:29*	*08/15/24 21:52*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/14/24 13:29*	*08/15/24 21:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/15/24 21:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/14/24 20:40	1

Eurofins Carlsbad

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 05

Lab Sample ID: 890-7015-18
Matrix: Solid
Date Collected: 08/09/24 10:51
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/14/24 11:10	08/14/24 20:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/14/24 11:10	08/14/24 20:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/14/24 11:10	08/14/24 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*08/14/24 11:10*	*08/14/24 20:40*	*1*
o-Terphenyl	*119*		*70 - 130*	*08/14/24 11:10*	*08/14/24 20:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.7**		5.05		mg/Kg			08/16/24 01:18	1

Client Sample ID: BH 24 - 05

Lab Sample ID: 890-7015-19
Matrix: Solid
Date Collected: 08/09/24 10:54
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 22:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 22:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 22:19	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/14/24 13:29	08/15/24 22:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:29	08/15/24 22:19	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/14/24 13:29	08/15/24 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/14/24 13:29*	*08/15/24 22:19*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/14/24 13:29*	*08/15/24 22:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			08/15/24 22:19	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/14/24 20:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/14/24 11:10	08/14/24 20:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/14/24 11:10	08/14/24 20:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/14/24 11:10	08/14/24 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/14/24 11:10*	*08/14/24 20:56*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/14/24 11:10*	*08/14/24 20:56*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 05

Lab Sample ID: 890-7015-19
Matrix: Solid
Date Collected: 08/09/24 10:54
Date Received: 08/13/24 13:38
Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.9		5.02		mg/Kg			08/16/24 01:26	1

Client Sample ID: BH 24 - 05

Lab Sample ID: 890-7015-20
Matrix: Solid
Date Collected: 08/09/24 10:57
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 22:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 22:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 22:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/14/24 13:29	08/15/24 22:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:29	08/15/24 22:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/14/24 13:29	08/15/24 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/14/24 13:29*	*08/15/24 22:45*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/14/24 13:29*	*08/15/24 22:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/15/24 22:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/14/24 21:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/14/24 11:10	08/14/24 21:12	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/14/24 11:10	08/14/24 21:12	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/14/24 11:10	08/14/24 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*08/14/24 11:10*	*08/14/24 21:12*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/14/24 11:10*	*08/14/24 21:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.4		4.96		mg/Kg			08/16/24 01:33	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 06

Lab Sample ID: 890-7015-21
Matrix: Solid
Date Collected: 08/09/24 11:02
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 13:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 13:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 13:20	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/14/24 13:31	08/15/24 13:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 13:20	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/14/24 13:31	08/15/24 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/14/24 13:31*	*08/15/24 13:20*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 13:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			08/15/24 13:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/14/24 23:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/14/24 11:13	08/14/24 23:06	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/14/24 11:13	08/14/24 23:06	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/14/24 11:13	08/14/24 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/14/24 11:13*	*08/14/24 23:06*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/24 11:13*	*08/14/24 23:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.9**		4.96		mg/Kg			08/16/24 00:06	1

Client Sample ID: BH 24 - 06

Lab Sample ID: 890-7015-22
Matrix: Solid
Date Collected: 08/09/24 11:09
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 13:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 13:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 13:41	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/14/24 13:31	08/15/24 13:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 13:41	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/14/24 13:31	08/15/24 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*08/14/24 13:31*	*08/15/24 13:41*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 06

Lab Sample ID: 890-7015-22
Matrix: Solid
Date Collected: 08/09/24 11:09
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 13:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/15/24 13:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			08/14/24 23:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		08/14/24 11:13	08/14/24 23:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		08/14/24 11:13	08/14/24 23:54	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		08/14/24 11:13	08/14/24 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*08/14/24 11:13*	*08/14/24 23:54*	*1*
o-Terphenyl	*93*		*70 - 130*	*08/14/24 11:13*	*08/14/24 23:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.3**		4.96	mg/Kg			08/16/24 00:24	1

Client Sample ID: BH 24 - 06

Lab Sample ID: 890-7015-23
Matrix: Solid
Date Collected: 08/09/24 11:13
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/14/24 13:31	08/15/24 14:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/14/24 13:31	08/15/24 14:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/14/24 13:31	08/15/24 14:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/14/24 13:31	08/15/24 14:01	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/14/24 13:31	08/15/24 14:01	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/14/24 13:31	08/15/24 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/14/24 13:31*	*08/15/24 14:01*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 14:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			08/15/24 14:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/15/24 00:09	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 06

Lab Sample ID: 890-7015-23
Matrix: Solid
Date Collected: 08/09/24 11:13
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/14/24 11:13	08/15/24 00:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/14/24 11:13	08/15/24 00:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/14/24 11:13	08/15/24 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*08/14/24 11:13*	*08/15/24 00:09*	*1*
o-Terphenyl	*88*		*70 - 130*	*08/14/24 11:13*	*08/15/24 00:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.3**		4.98		mg/Kg			08/16/24 00:30	1

Client Sample ID: BH 24 - 06

Lab Sample ID: 890-7015-24
Matrix: Solid
Date Collected: 08/09/24 11:17
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:31	08/15/24 14:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:31	08/15/24 14:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:31	08/15/24 14:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/14/24 13:31	08/15/24 14:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:31	08/15/24 14:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/14/24 13:31	08/15/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/14/24 13:31*	*08/15/24 14:22*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 14:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/15/24 14:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/15/24 00:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/14/24 11:13	08/15/24 00:26	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/14/24 11:13	08/15/24 00:26	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/14/24 11:13	08/15/24 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/14/24 11:13*	*08/15/24 00:26*	*1*
o-Terphenyl	*86*		*70 - 130*	*08/14/24 11:13*	*08/15/24 00:26*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 06

Lab Sample ID: 890-7015-24
Matrix: Solid
Date Collected: 08/09/24 11:17
Date Received: 08/13/24 13:38
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.4		5.05		mg/Kg			08/16/24 00:36	1

Client Sample ID: BH 24 - 07

Lab Sample ID: 890-7015-25
Matrix: Solid
Date Collected: 08/09/24 11:22
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 14:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 14:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 14:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/14/24 13:31	08/15/24 14:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 14:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/14/24 13:31	08/15/24 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/14/24 13:31*	*08/15/24 14:42*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 14:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/15/24 14:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/15/24 00:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		08/14/24 11:13	08/15/24 00:42	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/14/24 11:13	08/15/24 00:42	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/14/24 11:13	08/15/24 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/14/24 11:13*	*08/15/24 00:42*	*1*
o-Terphenyl	*89*		*70 - 130*	*08/14/24 11:13*	*08/15/24 00:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	621		4.99		mg/Kg			08/16/24 00:42	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 07

Date Collected: 08/09/24 11:25
Date Received: 08/13/24 13:38
Sample Depth: 2

Lab Sample ID: 890-7015-26
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:31	08/15/24 15:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:31	08/15/24 15:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:31	08/15/24 15:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/14/24 13:31	08/15/24 15:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:31	08/15/24 15:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/14/24 13:31	08/15/24 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/14/24 13:31*	*08/15/24 15:03*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 15:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/15/24 15:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/15/24 00:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/14/24 11:13	08/15/24 00:58	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/14/24 11:13	08/15/24 00:58	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/14/24 11:13	08/15/24 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*08/14/24 11:13*	*08/15/24 00:58*	*1*
o-Terphenyl	*89*		*70 - 130*	*08/14/24 11:13*	*08/15/24 00:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**842**		5.05		mg/Kg			08/16/24 01:00	1

Client Sample ID: BH 24 - 07

Date Collected: 08/09/24 11:29
Date Received: 08/13/24 13:38
Sample Depth: 3

Lab Sample ID: 890-7015-27
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 15:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 15:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 15:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/14/24 13:31	08/15/24 15:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 15:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/14/24 13:31	08/15/24 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/14/24 13:31*	*08/15/24 15:24*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 07

Lab Sample ID: 890-7015-27
Matrix: Solid
Date Collected: 08/09/24 11:29
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 15:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/15/24 15:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			08/15/24 01:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		08/14/24 11:13	08/15/24 01:14	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		08/14/24 11:13	08/15/24 01:14	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		08/14/24 11:13	08/15/24 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/14/24 11:13*	*08/15/24 01:14*	*1*
o-Terphenyl	*85*		*70 - 130*	*08/14/24 11:13*	*08/15/24 01:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		4.97	mg/Kg			08/16/24 01:06	1

Client Sample ID: BH 24 - 07

Lab Sample ID: 890-7015-28
Matrix: Solid
Date Collected: 08/09/24 11:34
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:31	08/15/24 15:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:31	08/15/24 15:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:31	08/15/24 15:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/14/24 13:31	08/15/24 15:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:31	08/15/24 15:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/14/24 13:31	08/15/24 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/14/24 13:31*	*08/15/24 15:44*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/14/24 13:31*	*08/15/24 15:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/15/24 15:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			08/15/24 01:30	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 07

Lab Sample ID: 890-7015-28
Matrix: Solid
Date Collected: 08/09/24 11:34
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/14/24 11:13	08/15/24 01:30	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/14/24 11:13	08/15/24 01:30	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/14/24 11:13	08/15/24 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/14/24 11:13*	*08/15/24 01:30*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/24 11:13*	*08/15/24 01:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		4.98		mg/Kg			08/16/24 01:12	1

Client Sample ID: BH 24 - 08

Lab Sample ID: 890-7015-29
Matrix: Solid
Date Collected: 08/09/24 11:44
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 16:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 16:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 16:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/14/24 13:31	08/15/24 16:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 16:05	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/14/24 13:31	08/15/24 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/14/24 13:31*	*08/15/24 16:05*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 16:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/15/24 16:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/15/24 01:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/14/24 11:13	08/15/24 01:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/14/24 11:13	08/15/24 01:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/14/24 11:13	08/15/24 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/14/24 11:13*	*08/15/24 01:46*	*1*
o-Terphenyl	*89*		*70 - 130*	*08/14/24 11:13*	*08/15/24 01:46*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 08

Lab Sample ID: 890-7015-29
Matrix: Solid
Date Collected: 08/09/24 11:44
Date Received: 08/13/24 13:38
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.9		4.99		mg/Kg			08/16/24 01:18	1

Client Sample ID: BH 24 - 08

Lab Sample ID: 890-7015-30
Matrix: Solid
Date Collected: 08/09/24 11:49
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:31	08/15/24 16:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:31	08/15/24 16:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:31	08/15/24 16:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/14/24 13:31	08/15/24 16:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:31	08/15/24 16:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/14/24 13:31	08/15/24 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/14/24 13:31*	*08/15/24 16:25*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 16:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/15/24 16:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/15/24 02:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/14/24 11:13	08/15/24 02:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/14/24 11:13	08/15/24 02:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/14/24 11:13	08/15/24 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/14/24 11:13*	*08/15/24 02:02*	*1*
o-Terphenyl	*88*		*70 - 130*	*08/14/24 11:13*	*08/15/24 02:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		4.98		mg/Kg			08/16/24 01:24	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 08

Lab Sample ID: 890-7015-31
Matrix: Solid
Date Collected: 08/09/24 11:54
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 18:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 18:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 18:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/14/24 13:31	08/15/24 18:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 18:01	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/14/24 13:31	08/15/24 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*08/14/24 13:31*	*08/15/24 18:01*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 18:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/15/24 18:01	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/15/24 02:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/14/24 11:13	08/15/24 02:34	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/14/24 11:13	08/15/24 02:34	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/14/24 11:13	08/15/24 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/14/24 11:13*	*08/15/24 02:34*	*1*
o-Terphenyl	*89*		*70 - 130*	*08/14/24 11:13*	*08/15/24 02:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**322**	**F1**	4.98		mg/Kg			08/16/24 01:30	1

Client Sample ID: BH 24 - 08

Lab Sample ID: 890-7015-32
Matrix: Solid
Date Collected: 08/09/24 11:59
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:31	08/15/24 18:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:31	08/15/24 18:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:31	08/15/24 18:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/14/24 13:31	08/15/24 18:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/14/24 13:31	08/15/24 18:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/14/24 13:31	08/15/24 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/14/24 13:31*	*08/15/24 18:22*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 08

Lab Sample ID: 890-7015-32
Matrix: Solid
Date Collected: 08/09/24 11:59
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 18:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/15/24 18:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/15/24 02:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/14/24 11:13	08/15/24 02:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/14/24 11:13	08/15/24 02:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/14/24 11:13	08/15/24 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/14/24 11:13*	*08/15/24 02:50*	*1*
o-Terphenyl	*85*		*70 - 130*	*08/14/24 11:13*	*08/15/24 02:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.9**		4.98	mg/Kg			08/16/24 01:48	1

Client Sample ID: BH 24 - 09

Lab Sample ID: 890-7015-33
Matrix: Solid
Date Collected: 08/09/24 12:52
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:31	08/15/24 18:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:31	08/15/24 18:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:31	08/15/24 18:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/14/24 13:31	08/15/24 18:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/14/24 13:31	08/15/24 18:43	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/14/24 13:31	08/15/24 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/14/24 13:31*	*08/15/24 18:43*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 18:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/15/24 18:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			08/15/24 03:06	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 09

Lab Sample ID: 890-7015-33
Matrix: Solid
Date Collected: 08/09/24 12:52
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/14/24 11:13	08/15/24 03:06	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/14/24 11:13	08/15/24 03:06	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/14/24 11:13	08/15/24 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/14/24 11:13*	*08/15/24 03:06*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/24 11:13*	*08/15/24 03:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.9**		5.01		mg/Kg			08/16/24 01:54	1

Client Sample ID: BH 24 - 09

Lab Sample ID: 890-7015-34
Matrix: Solid
Date Collected: 08/09/24 12:57
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 19:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 19:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 19:03	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/14/24 13:31	08/15/24 19:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 19:03	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/14/24 13:31	08/15/24 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/14/24 13:31*	*08/15/24 19:03*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 19:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/15/24 19:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/15/24 03:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/14/24 11:13	08/15/24 03:22	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/14/24 11:13	08/15/24 03:22	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/14/24 11:13	08/15/24 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*48*	*S1-*	*70 - 130*	*08/14/24 11:13*	*08/15/24 03:22*	*1*
o-Terphenyl	*56*	*S1-*	*70 - 130*	*08/14/24 11:13*	*08/15/24 03:22*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 09

Lab Sample ID: 890-7015-34
Matrix: Solid
Date Collected: 08/09/24 12:57
Date Received: 08/13/24 13:38
Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.8		5.03		mg/Kg			08/16/24 02:13	1

Client Sample ID: BH 24 - 09

Lab Sample ID: 890-7015-35
Matrix: Solid
Date Collected: 08/09/24 13:02
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 19:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 19:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 19:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/14/24 13:31	08/15/24 19:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 19:24	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/14/24 13:31	08/15/24 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/14/24 13:31*	*08/15/24 19:24*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/14/24 13:31*	*08/15/24 19:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/15/24 19:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/15/24 03:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/14/24 11:13	08/15/24 03:38	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/14/24 11:13	08/15/24 03:38	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/14/24 11:13	08/15/24 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*08/14/24 11:13*	*08/15/24 03:38*	*1*
o-Terphenyl	*88*		*70 - 130*	*08/14/24 11:13*	*08/15/24 03:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.2		4.96		mg/Kg			08/16/24 02:19	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 09

Lab Sample ID: 890-7015-36
Matrix: Solid
Date Collected: 08/09/24 13:06
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:31	08/15/24 19:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:31	08/15/24 19:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:31	08/15/24 19:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/14/24 13:31	08/15/24 19:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/14/24 13:31	08/15/24 19:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/14/24 13:31	08/15/24 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*08/14/24 13:31*	*08/15/24 19:44*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 19:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/15/24 19:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/15/24 03:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/14/24 11:13	08/15/24 03:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/14/24 11:13	08/15/24 03:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/14/24 11:13	08/15/24 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/14/24 11:13*	*08/15/24 03:54*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/14/24 11:13*	*08/15/24 03:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73.5**		4.95		mg/Kg			08/16/24 02:25	1

Client Sample ID: BH 24 - 10

Lab Sample ID: 890-7015-37
Matrix: Solid
Date Collected: 08/09/24 13:14
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 20:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 20:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 20:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/14/24 13:31	08/15/24 20:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/14/24 13:31	08/15/24 20:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/14/24 13:31	08/15/24 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/14/24 13:31*	*08/15/24 20:05*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 10

Lab Sample ID: 890-7015-37
Matrix: Solid
Date Collected: 08/09/24 13:14
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 20:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			08/15/24 20:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			08/15/24 04:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		08/14/24 11:13	08/15/24 04:09	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		08/14/24 11:13	08/15/24 04:09	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		08/14/24 11:13	08/15/24 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*08/14/24 11:13*	*08/15/24 04:09*	*1*
o-Terphenyl	*80*		*70 - 130*	*08/14/24 11:13*	*08/15/24 04:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.4**		4.97	mg/Kg			08/16/24 02:31	1

Client Sample ID: BH 24 - 10

Lab Sample ID: 890-7015-38
Matrix: Solid
Date Collected: 08/09/24 13:17
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/14/24 13:31	08/15/24 20:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/14/24 13:31	08/15/24 20:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/14/24 13:31	08/15/24 20:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/14/24 13:31	08/15/24 20:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/14/24 13:31	08/15/24 20:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/14/24 13:31	08/15/24 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/14/24 13:31*	*08/15/24 20:25*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 20:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/15/24 20:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/15/24 04:26	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 10

Lab Sample ID: 890-7015-38
Matrix: Solid
Date Collected: 08/09/24 13:17
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/14/24 11:13	08/15/24 04:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/14/24 11:13	08/15/24 04:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/14/24 11:13	08/15/24 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/14/24 11:13*	*08/15/24 04:26*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/14/24 11:13*	*08/15/24 04:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		5.05		mg/Kg			08/16/24 02:37	1

Client Sample ID: BH 24 - 10

Lab Sample ID: 890-7015-39
Matrix: Solid
Date Collected: 08/09/24 13:21
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 20:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 20:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 20:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/14/24 13:31	08/15/24 20:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 20:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/14/24 13:31	08/15/24 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*08/14/24 13:31*	*08/15/24 20:46*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 20:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/15/24 20:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/15/24 04:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/14/24 11:13	08/15/24 04:42	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/14/24 11:13	08/15/24 04:42	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/14/24 11:13	08/15/24 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/14/24 11:13*	*08/15/24 04:42*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/14/24 11:13*	*08/15/24 04:42*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 10

Lab Sample ID: 890-7015-39
Matrix: Solid
Date Collected: 08/09/24 13:21
Date Received: 08/13/24 13:38
Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		5.02		mg/Kg			08/16/24 02:43	1

Client Sample ID: BH 24 - 10

Lab Sample ID: 890-7015-40
Matrix: Solid
Date Collected: 08/09/24 13:24
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 21:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 21:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 21:06	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/14/24 13:31	08/15/24 21:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/14/24 13:31	08/15/24 21:06	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/14/24 13:31	08/15/24 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/14/24 13:31*	*08/15/24 21:06*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/24 13:31*	*08/15/24 21:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			08/15/24 21:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/15/24 04:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		08/14/24 11:13	08/15/24 04:58	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/14/24 11:13	08/15/24 04:58	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/14/24 11:13	08/15/24 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/14/24 11:13*	*08/15/24 04:58*	*1*
o-Terphenyl	*81*		*70 - 130*	*08/14/24 11:13*	*08/15/24 04:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.7		5.05		mg/Kg			08/16/24 02:49	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 11

Lab Sample ID: 890-7015-41
Matrix: Solid
Date Collected: 08/09/24 13:30
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 12:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 12:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 12:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/15/24 09:10	08/15/24 12:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 12:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/15/24 09:10	08/15/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/15/24 09:10*	*08/15/24 12:08*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/15/24 09:10*	*08/15/24 12:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/15/24 12:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/14/24 23:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/14/24 11:16	08/14/24 23:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/14/24 11:16	08/14/24 23:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/14/24 11:16	08/14/24 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*08/14/24 11:16*	*08/14/24 23:06*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*08/14/24 11:16*	*08/14/24 23:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.1**		5.02		mg/Kg			08/16/24 04:19	1

Client Sample ID: BH 24 - 11

Lab Sample ID: 890-7015-42
Matrix: Solid
Date Collected: 08/09/24 13:35
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/15/24 09:10	08/15/24 12:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/15/24 09:10	08/15/24 12:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/15/24 09:10	08/15/24 12:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/15/24 09:10	08/15/24 12:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/15/24 09:10	08/15/24 12:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/15/24 09:10	08/15/24 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/15/24 09:10*	*08/15/24 12:28*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 11

Lab Sample ID: 890-7015-42
Matrix: Solid
Date Collected: 08/09/24 13:35
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/15/24 09:10*	*08/15/24 12:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/15/24 12:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			08/14/24 23:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		08/14/24 11:16	08/14/24 23:54	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		08/14/24 11:16	08/14/24 23:54	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		08/14/24 11:16	08/14/24 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/14/24 11:16*	*08/14/24 23:54*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/14/24 11:16*	*08/14/24 23:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**131**		5.05	mg/Kg			08/16/24 04:41	1

Client Sample ID: BH 24 - 11

Lab Sample ID: 890-7015-43
Matrix: Solid
Date Collected: 08/09/24 13:39
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/15/24 09:10	08/15/24 12:49	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/15/24 09:10	08/15/24 12:49	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/15/24 09:10	08/15/24 12:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/15/24 09:10	08/15/24 12:49	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/15/24 09:10	08/15/24 12:49	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/15/24 09:10	08/15/24 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*08/15/24 09:10*	*08/15/24 12:49*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/15/24 09:10*	*08/15/24 12:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/15/24 12:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			08/15/24 00:09	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 11

Lab Sample ID: 890-7015-43
Matrix: Solid
Date Collected: 08/09/24 13:39
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/14/24 11:16	08/15/24 00:09	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/14/24 11:16	08/15/24 00:09	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/14/24 11:16	08/15/24 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*08/14/24 11:16*	*08/15/24 00:09*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/14/24 11:16*	*08/15/24 00:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**118**		4.96		mg/Kg			08/16/24 04:48	1

Client Sample ID: BH 24 - 11

Lab Sample ID: 890-7015-44
Matrix: Solid
Date Collected: 08/09/24 13:44
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 13:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 13:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 13:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/15/24 09:10	08/15/24 13:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 13:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/15/24 09:10	08/15/24 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/15/24 09:10*	*08/15/24 13:09*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/15/24 09:10*	*08/15/24 13:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/15/24 13:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/15/24 00:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/14/24 11:16	08/15/24 00:26	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/14/24 11:16	08/15/24 00:26	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/14/24 11:16	08/15/24 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*08/14/24 11:16*	*08/15/24 00:26*	*1*
o-Terphenyl	*126*		*70 - 130*	*08/14/24 11:16*	*08/15/24 00:26*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 11

Lab Sample ID: 890-7015-44
Matrix: Solid
Date Collected: 08/09/24 13:44
Date Received: 08/13/24 13:38
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		4.96		mg/Kg			08/16/24 04:55	1

Client Sample ID: BH 24 - 12

Lab Sample ID: 890-7015-45
Matrix: Solid
Date Collected: 08/09/24 13:49
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/15/24 09:10	08/15/24 13:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/15/24 09:10	08/15/24 13:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/15/24 09:10	08/15/24 13:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/15/24 09:10	08/15/24 13:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/15/24 09:10	08/15/24 13:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/15/24 09:10	08/15/24 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*08/15/24 09:10*	*08/15/24 13:30*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/15/24 09:10*	*08/15/24 13:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/15/24 13:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/15/24 00:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/14/24 11:16	08/15/24 00:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/14/24 11:16	08/15/24 00:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/14/24 11:16	08/15/24 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*08/14/24 11:16*	*08/15/24 00:42*	*1*
o-Terphenyl	*119*		*70 - 130*	*08/14/24 11:16*	*08/15/24 00:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.2		5.05		mg/Kg			08/16/24 05:02	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 12

Lab Sample ID: 890-7015-46
Matrix: Solid
Date Collected: 08/09/24 13:54
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 13:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 13:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 13:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 09:10	08/15/24 13:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 13:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 09:10	08/15/24 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/15/24 09:10*	*08/15/24 13:50*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/15/24 09:10*	*08/15/24 13:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/15/24 13:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/24 00:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/15/24 00:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/15/24 00:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/15/24 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/14/24 11:16*	*08/15/24 00:58*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/14/24 11:16*	*08/15/24 00:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.6**		4.97		mg/Kg			08/16/24 05:24	1

Client Sample ID: BH 24 - 12

Lab Sample ID: 890-7015-47
Matrix: Solid
Date Collected: 08/09/24 13:59
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 14:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 14:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 14:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 09:10	08/15/24 14:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 14:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 09:10	08/15/24 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/15/24 09:10*	*08/15/24 14:11*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 12

Lab Sample ID: 890-7015-47
Matrix: Solid
Date Collected: 08/09/24 13:59
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/15/24 09:10*	*08/15/24 14:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/15/24 14:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			08/15/24 01:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		08/14/24 11:16	08/15/24 01:14	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		08/14/24 11:16	08/15/24 01:14	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		08/14/24 11:16	08/15/24 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*119*		*70 - 130*	*08/14/24 11:16*	*08/15/24 01:14*	*1*
o-Terphenyl	*122*		*70 - 130*	*08/14/24 11:16*	*08/15/24 01:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**191**		4.97	mg/Kg			08/16/24 05:32	1

Client Sample ID: BH 24 - 12

Lab Sample ID: 890-7015-48
Matrix: Solid
Date Collected: 08/09/24 14:03
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/15/24 09:10	08/15/24 14:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/15/24 09:10	08/15/24 14:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/15/24 09:10	08/15/24 14:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/15/24 09:10	08/15/24 14:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/15/24 09:10	08/15/24 14:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/15/24 09:10	08/15/24 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/15/24 09:10*	*08/15/24 14:31*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/15/24 09:10*	*08/15/24 14:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/15/24 14:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			08/15/24 01:30	1

Eurofins Carlsbad

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 12

Lab Sample ID: 890-7015-48
Matrix: Solid
Date Collected: 08/09/24 14:03
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/14/24 11:16	08/15/24 01:30	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/14/24 11:16	08/15/24 01:30	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/14/24 11:16	08/15/24 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*08/14/24 11:16*	*08/15/24 01:30*	*1*
o-Terphenyl	*113*		*70 - 130*	*08/14/24 11:16*	*08/15/24 01:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		4.97		mg/Kg			08/16/24 05:39	1

Client Sample ID: BH 24 - 13

Lab Sample ID: 890-7015-49
Matrix: Solid
Date Collected: 08/09/24 14:10
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 14:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 14:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 14:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/15/24 09:10	08/15/24 14:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 14:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/15/24 09:10	08/15/24 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/15/24 09:10*	*08/15/24 14:52*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/15/24 09:10*	*08/15/24 14:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/24 14:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/15/24 01:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/14/24 11:16	08/15/24 01:46	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/14/24 11:16	08/15/24 01:46	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/14/24 11:16	08/15/24 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*08/14/24 11:16*	*08/15/24 01:46*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/14/24 11:16*	*08/15/24 01:46*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 13

Lab Sample ID: 890-7015-49
Matrix: Solid
Date Collected: 08/09/24 14:10
Date Received: 08/13/24 13:38
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.7		5.05		mg/Kg			08/16/24 05:46	1

Client Sample ID: BH 24 - 13

Lab Sample ID: 890-7015-50
Matrix: Solid
Date Collected: 08/09/24 14:15
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/15/24 09:10	08/15/24 15:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/15/24 09:10	08/15/24 15:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/15/24 09:10	08/15/24 15:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/15/24 09:10	08/15/24 15:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/15/24 09:10	08/15/24 15:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/15/24 09:10	08/15/24 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/15/24 09:10*	*08/15/24 15:13*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/15/24 09:10*	*08/15/24 15:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/15/24 15:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/15/24 02:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/14/24 11:16	08/15/24 02:02	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/14/24 11:16	08/15/24 02:02	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/14/24 11:16	08/15/24 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*08/14/24 11:16*	*08/15/24 02:02*	*1*
o-Terphenyl	*107*		*70 - 130*	*08/14/24 11:16*	*08/15/24 02:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		5.02		mg/Kg			08/16/24 05:53	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 13

Lab Sample ID: 890-7015-51
Matrix: Solid
Date Collected: 08/09/24 14:20
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 16:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 16:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 16:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 09:10	08/15/24 16:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 16:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 09:10	08/15/24 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/15/24 09:10*	*08/15/24 16:37*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/15/24 09:10*	*08/15/24 16:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/15/24 16:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/24 02:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/15/24 02:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/15/24 02:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/15/24 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*08/14/24 11:16*	*08/15/24 02:34*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/14/24 11:16*	*08/15/24 02:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**216**		5.05		mg/Kg			08/16/24 06:01	1

Client Sample ID: BH 24 - 13

Lab Sample ID: 890-7015-52
Matrix: Solid
Date Collected: 08/09/24 14:24
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 16:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 16:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 16:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/15/24 09:10	08/15/24 16:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 16:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/15/24 09:10	08/15/24 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/15/24 09:10*	*08/15/24 16:58*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 13

Lab Sample ID: 890-7015-52
Matrix: Solid
Date Collected: 08/09/24 14:24
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/15/24 09:10*	*08/15/24 16:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/15/24 16:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/15/24 02:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/14/24 11:16	08/15/24 02:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/14/24 11:16	08/15/24 02:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/14/24 11:16	08/15/24 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*08/14/24 11:16*	*08/15/24 02:50*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/14/24 11:16*	*08/15/24 02:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**242**		4.96	mg/Kg			08/16/24 06:23	1

Client Sample ID: BH 24 - 14

Lab Sample ID: 890-7015-53
Matrix: Solid
Date Collected: 08/09/24 14:34
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/15/24 09:10	08/15/24 17:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/15/24 09:10	08/15/24 17:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/15/24 09:10	08/15/24 17:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/15/24 09:10	08/15/24 17:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/15/24 09:10	08/15/24 17:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/15/24 09:10	08/15/24 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/15/24 09:10*	*08/15/24 17:19*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/15/24 09:10*	*08/15/24 17:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/15/24 17:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/15/24 03:06	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 14

Lab Sample ID: 890-7015-53
Matrix: Solid
Date Collected: 08/09/24 14:34
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/14/24 11:16	08/15/24 03:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/14/24 11:16	08/15/24 03:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/14/24 11:16	08/15/24 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*08/14/24 11:16*	*08/15/24 03:06*	*1*
o-Terphenyl	*127*		*70 - 130*	*08/14/24 11:16*	*08/15/24 03:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.3**		4.98		mg/Kg			08/16/24 06:30	1

Client Sample ID: BH 24 - 14

Lab Sample ID: 890-7015-54
Matrix: Solid
Date Collected: 08/09/24 14:37
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 17:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 17:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 17:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 09:10	08/15/24 17:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 17:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 09:10	08/15/24 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/15/24 09:10*	*08/15/24 17:39*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/15/24 09:10*	*08/15/24 17:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/15/24 17:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/24 03:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/15/24 03:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/15/24 03:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/15/24 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/14/24 11:16*	*08/15/24 03:22*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/14/24 11:16*	*08/15/24 03:22*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 14

Lab Sample ID: 890-7015-54
Matrix: Solid
Date Collected: 08/09/24 14:37
Date Received: 08/13/24 13:38
Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.8		5.04		mg/Kg			08/16/24 06:52	1

Client Sample ID: BH 24 - 14

Lab Sample ID: 890-7015-55
Matrix: Solid
Date Collected: 08/09/24 14:42
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 18:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 18:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 18:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/15/24 09:10	08/15/24 18:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 18:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/15/24 09:10	08/15/24 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/15/24 09:10*	*08/15/24 18:00*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/15/24 09:10*	*08/15/24 18:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/15/24 18:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/15/24 03:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/14/24 11:16	08/15/24 03:38	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/14/24 11:16	08/15/24 03:38	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/14/24 11:16	08/15/24 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*08/14/24 11:16*	*08/15/24 03:38*	*1*
o-Terphenyl	*111*		*70 - 130*	*08/14/24 11:16*	*08/15/24 03:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.4		4.96		mg/Kg			08/16/24 06:59	1

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 14

Lab Sample ID: 890-7015-56
Matrix: Solid
Date Collected: 08/09/24 14:47
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/15/24 09:10	08/15/24 18:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/15/24 09:10	08/15/24 18:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/15/24 09:10	08/15/24 18:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/15/24 09:10	08/15/24 18:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/15/24 09:10	08/15/24 18:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/15/24 09:10	08/15/24 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/15/24 09:10*	*08/15/24 18:20*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/15/24 09:10*	*08/15/24 18:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/15/24 18:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/15/24 03:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		08/14/24 11:16	08/15/24 03:54	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/14/24 11:16	08/15/24 03:54	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/14/24 11:16	08/15/24 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*08/14/24 11:16*	*08/15/24 03:54*	*1*
o-Terphenyl	*114*		*70 - 130*	*08/14/24 11:16*	*08/15/24 03:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.9**		5.04		mg/Kg			08/16/24 07:07	1

Client Sample ID: BH 24 - 15

Lab Sample ID: 890-7015-57
Matrix: Solid
Date Collected: 08/09/24 14:53
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 18:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 18:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 18:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 09:10	08/15/24 18:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 09:10	08/15/24 18:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 09:10	08/15/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/15/24 09:10*	*08/15/24 18:41*	*1*

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 15

Lab Sample ID: 890-7015-57
Matrix: Solid
Date Collected: 08/09/24 14:53
Date Received: 08/13/24 13:38
Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/15/24 09:10*	*08/15/24 18:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/15/24 18:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			08/15/24 04:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		08/14/24 11:16	08/15/24 04:09	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		08/14/24 11:16	08/15/24 04:09	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		08/14/24 11:16	08/15/24 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*94*		*70 - 130*	*08/14/24 11:16*	*08/15/24 04:09*	*1*
o-Terphenyl	*95*		*70 - 130*	*08/14/24 11:16*	*08/15/24 04:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.4**		4.97	mg/Kg			08/16/24 07:14	1

Client Sample ID: BH 24 - 15

Lab Sample ID: 890-7015-58
Matrix: Solid
Date Collected: 08/09/24 14:57
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/15/24 09:10	08/15/24 19:01	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/15/24 09:10	08/15/24 19:01	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/15/24 09:10	08/15/24 19:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/15/24 09:10	08/15/24 19:01	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/15/24 09:10	08/15/24 19:01	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/15/24 09:10	08/15/24 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/15/24 09:10*	*08/15/24 19:01*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/15/24 09:10*	*08/15/24 19:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/15/24 19:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			08/15/24 04:26	1

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Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 15

Lab Sample ID: 890-7015-58
Matrix: Solid
Date Collected: 08/09/24 14:57
Date Received: 08/13/24 13:38
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		08/14/24 11:16	08/15/24 04:26	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/14/24 11:16	08/15/24 04:26	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/14/24 11:16	08/15/24 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*08/14/24 11:16*	*08/15/24 04:26*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/14/24 11:16*	*08/15/24 04:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.9**		4.96		mg/Kg			08/16/24 07:21	1

Client Sample ID: BH 24 - 15

Lab Sample ID: 890-7015-59
Matrix: Solid
Date Collected: 08/09/24 15:04
Date Received: 08/13/24 13:38
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 19:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 19:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 19:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/15/24 09:10	08/15/24 19:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 19:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/15/24 09:10	08/15/24 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/15/24 09:10*	*08/15/24 19:22*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/15/24 09:10*	*08/15/24 19:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/24 19:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/15/24 04:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/14/24 11:16	08/15/24 04:42	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/14/24 11:16	08/15/24 04:42	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/14/24 11:16	08/15/24 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/14/24 11:16*	*08/15/24 04:42*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/14/24 11:16*	*08/15/24 04:42*	*1*

Client Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 15

Lab Sample ID: 890-7015-59
Matrix: Solid
Date Collected: 08/09/24 15:04
Date Received: 08/13/24 13:38
Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.9		5.02		mg/Kg			08/16/24 07:28	1

Client Sample ID: BH 24 - 15

Lab Sample ID: 890-7015-60
Matrix: Solid
Date Collected: 08/09/24 15:09
Date Received: 08/13/24 13:38
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 19:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 19:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 19:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/15/24 09:10	08/15/24 19:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 09:10	08/15/24 19:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/15/24 09:10	08/15/24 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/15/24 09:10*	*08/15/24 19:43*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/15/24 09:10*	*08/15/24 19:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/15/24 19:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/24 04:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/15/24 04:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/15/24 04:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/15/24 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*08/14/24 11:16*	*08/15/24 04:58*	*1*
o-Terphenyl	*102*		*70 - 130*	*08/14/24 11:16*	*08/15/24 04:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.3		4.98		mg/Kg			08/16/24 07:36	1

Surrogate Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-7015-1	BH 24 - 01	106	99										
890-7015-1 MS	BH 24 - 01	105	104										
890-7015-1 MSD	BH 24 - 01	107	107										
890-7015-2	BH 24 - 01	114	103										
890-7015-3	BH 24 - 01	119	105										
890-7015-4	BH 24 - 01	116	99										
890-7015-5	BH 24 - 02	117	106										
890-7015-6	BH 24 - 02	106	102										
890-7015-7	BH 24 - 02	108	101										
890-7015-8	BH 24 - 02	105	102										
890-7015-9	BH 24 - 03	118	105										
890-7015-10	BH 24 - 03	109	104										
890-7015-11	BH 24 - 03	104	100										
890-7015-12	BH 24 - 03	114	104										
890-7015-13	BH 24 - 04	114	100										
890-7015-14	BH 24 - 04	112	105										
890-7015-15	BH 24 - 04	111	100										
890-7015-16	BH 24 - 04	109	99										
890-7015-17	BH 24 - 05	112	103										
890-7015-18	BH 24 - 05	117	104										
890-7015-19	BH 24 - 05	107	103										
890-7015-20	BH 24 - 05	118	103										
890-7015-21	BH 24 - 06	121	96										
890-7015-21 MS	BH 24 - 06	122	95										
890-7015-21 MSD	BH 24 - 06	121	94										
890-7015-22	BH 24 - 06	123	96										
890-7015-23	BH 24 - 06	125	96										
890-7015-24	BH 24 - 06	124	96										
890-7015-25	BH 24 - 07	124	96										
890-7015-26	BH 24 - 07	125	96										
890-7015-27	BH 24 - 07	124	96										
890-7015-28	BH 24 - 07	126	97										
890-7015-29	BH 24 - 08	125	96										
890-7015-30	BH 24 - 08	126	96										
890-7015-31	BH 24 - 08	123	96										
890-7015-32	BH 24 - 08	126	96										
890-7015-33	BH 24 - 09	126	96										
890-7015-34	BH 24 - 09	121	96										
890-7015-35	BH 24 - 09	125	95										
890-7015-36	BH 24 - 09	129	96										
890-7015-37	BH 24 - 10	126	96										
890-7015-38	BH 24 - 10	126	96										
890-7015-39	BH 24 - 10	131 S1+	96										
890-7015-40	BH 24 - 10	125	96										
890-7015-41	BH 24 - 11	105	95										
890-7015-41 MS	BH 24 - 11	100	106										
890-7015-41 MSD	BH 24 - 11	94	106										
890-7015-42	BH 24 - 11	102	97										
890-7015-43	BH 24 - 11	108	96										

Surrogate Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

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

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
890-7015-44	BH 24 - 11	114	98
890-7015-45	BH 24 - 12	108	97
890-7015-46	BH 24 - 12	109	99
890-7015-47	BH 24 - 12	113	97
890-7015-48	BH 24 - 12	111	98
890-7015-49	BH 24 - 13	111	98
890-7015-50	BH 24 - 13	110	97
890-7015-51	BH 24 - 13	109	99
890-7015-52	BH 24 - 13	109	98
890-7015-53	BH 24 - 14	115	97
890-7015-54	BH 24 - 14	105	98
890-7015-55	BH 24 - 14	112	96
890-7015-56	BH 24 - 14	112	99
890-7015-57	BH 24 - 15	110	97
890-7015-58	BH 24 - 15	112	97
890-7015-59	BH 24 - 15	109	99
890-7015-60	BH 24 - 15	111	99
LCS 880-88430/1-A	Lab Control Sample	105	82
LCS 880-88431/1-A	Lab Control Sample	117	94
LCS 880-88477/1-A	Lab Control Sample	99	109
LCSD 880-88430/2-A	Lab Control Sample Dup	102	92
LCSD 880-88431/2-A	Lab Control Sample Dup	119	94
LCSD 880-88477/2-A	Lab Control Sample Dup	97	106
MB 880-88430/5-A	Method Blank	66 S1-	94
MB 880-88431/5-A	Method Blank	117	93
MB 880-88477/5-A	Method Blank	102	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
890-7015-1	BH 24 - 01	115	117
890-7015-1 MS	BH 24 - 01	104	116
890-7015-1 MSD	BH 24 - 01	115	126
890-7015-2	BH 24 - 01	114	117
890-7015-3	BH 24 - 01	112	113
890-7015-4	BH 24 - 01	101	103
890-7015-5	BH 24 - 02	114	117
890-7015-6	BH 24 - 02	107	110
890-7015-7	BH 24 - 02	111	114
890-7015-8	BH 24 - 02	114	117
890-7015-9	BH 24 - 03	119	124
890-7015-10	BH 24 - 03	112	114
890-7015-11	BH 24 - 03	107	108
890-7015-12	BH 24 - 03	124	126

Surrogate Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-7015-13	BH 24 - 04	127	131 S1+								
890-7015-14	BH 24 - 04	114	117								
890-7015-15	BH 24 - 04	107	111								
890-7015-16	BH 24 - 04	124	128								
890-7015-17	BH 24 - 05	106	109								
890-7015-18	BH 24 - 05	115	119								
890-7015-19	BH 24 - 05	105	109								
890-7015-20	BH 24 - 05	104	106								
890-7015-21	BH 24 - 06	98	87								
890-7015-21 MS	BH 24 - 06	91	86								
890-7015-21 MSD	BH 24 - 06	91	86								
890-7015-22	BH 24 - 06	104	93								
890-7015-23	BH 24 - 06	99	88								
890-7015-24	BH 24 - 06	97	86								
890-7015-25	BH 24 - 07	96	89								
890-7015-26	BH 24 - 07	100	89								
890-7015-27	BH 24 - 07	95	85								
890-7015-28	BH 24 - 07	97	87								
890-7015-29	BH 24 - 08	98	89								
890-7015-30	BH 24 - 08	97	88								
890-7015-31	BH 24 - 08	96	89								
890-7015-32	BH 24 - 08	97	85								
890-7015-33	BH 24 - 09	97	87								
890-7015-34	BH 24 - 09	48 S1-	56 S1-								
890-7015-35	BH 24 - 09	101	88								
890-7015-36	BH 24 - 09	96	84								
890-7015-37	BH 24 - 10	91	80								
890-7015-38	BH 24 - 10	95	84								
890-7015-39	BH 24 - 10	95	84								
890-7015-40	BH 24 - 10	92	81								
890-7015-41	BH 24 - 11	129	132 S1+								
890-7015-41 MS	BH 24 - 11	106	119								
890-7015-41 MSD	BH 24 - 11	105	117								
890-7015-42	BH 24 - 11	105	108								
890-7015-43	BH 24 - 11	112	115								
890-7015-44	BH 24 - 11	121	126								
890-7015-45	BH 24 - 12	117	119								
890-7015-46	BH 24 - 12	105	108								
890-7015-47	BH 24 - 12	119	122								
890-7015-48	BH 24 - 12	110	113								
890-7015-49	BH 24 - 13	115	115								
890-7015-50	BH 24 - 13	106	107								
890-7015-51	BH 24 - 13	108	108								
890-7015-52	BH 24 - 13	106	108								
890-7015-53	BH 24 - 14	127	127								
890-7015-54	BH 24 - 14	103	105								
890-7015-55	BH 24 - 14	110	111								
890-7015-56	BH 24 - 14	112	114								
890-7015-57	BH 24 - 15	94	95								
890-7015-58	BH 24 - 15	102	104								

Surrogate Summary

Client: Vertex Job ID: 890-7015-1
Project/Site: Landes to SRO Line SDG: 24E - 03618

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-7015-59	BH 24 - 15	103	104										
890-7015-60	BH 24 - 15	100	102										
LCS 880-88398/2-A	Lab Control Sample	118	138 S1+										
LCS 880-88399/2-A	Lab Control Sample	89	84										
LCS 880-88400/2-A	Lab Control Sample	106	119										
LCSD 880-88398/3-A	Lab Control Sample Dup	120	137 S1+										
LCSD 880-88399/3-A	Lab Control Sample Dup	89	86										
LCSD 880-88400/3-A	Lab Control Sample Dup	106	119										
MB 880-88398/1-A	Method Blank	161 S1+	167 S1+										
MB 880-88399/1-A	Method Blank	122	110										
MB 880-88400/1-A	Method Blank	91	96										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88430/5-A
Matrix: Solid
Analysis Batch: 88471

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88430

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 12:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 12:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 12:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/14/24 13:29	08/15/24 12:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:29	08/15/24 12:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/14/24 13:29	08/15/24 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*08/14/24 13:29*	*08/15/24 12:20*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/14/24 13:29*	*08/15/24 12:20*	*1*

Lab Sample ID: LCS 880-88430/1-A
Matrix: Solid
Analysis Batch: 88471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88430

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09206		mg/Kg		92	70 - 130		
Toluene			0.100	0.09630		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09913		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.2010		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1025		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: LCSD 880-88430/2-A
Matrix: Solid
Analysis Batch: 88471

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88430

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09132		mg/Kg		91	70 - 130	1	35
Toluene			0.100	0.09125		mg/Kg		91	70 - 130	5	35
Ethylbenzene			0.100	0.09597		mg/Kg		96	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1967		mg/Kg		98	70 - 130	2	35
o-Xylene			0.100	0.1003		mg/Kg		100	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 890-7015-1 MS
Matrix: Solid
Analysis Batch: 88471

Client Sample ID: BH 24 - 01
Prep Type: Total/NA
Prep Batch: 88430

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U F2	0.0996	0.07820		mg/Kg		79	70 - 130		
Toluene	<0.00198	U	0.0996	0.07689		mg/Kg		77	70 - 130		

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

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

Lab Sample ID: 890-7015-1 MS
Matrix: Solid
Analysis Batch: 88471

Client Sample ID: BH 24 - 01
Prep Type: Total/NA
Prep Batch: 88430

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0996	0.07965		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.1612		mg/Kg		81	70 - 130
o-Xylene	<0.00198	U	0.0996	0.08348		mg/Kg		84	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-7015-1 MSD
Matrix: Solid
Analysis Batch: 88471

Client Sample ID: BH 24 - 01
Prep Type: Total/NA
Prep Batch: 88430

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F2	0.101	0.1149	F2	mg/Kg		114	70 - 130	38	35
Toluene	<0.00198	U	0.101	0.1026		mg/Kg		102	70 - 130	29	35
Ethylbenzene	<0.00198	U	0.101	0.1048		mg/Kg		104	70 - 130	27	35
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2129		mg/Kg		106	70 - 130	28	35
o-Xylene	<0.00198	U	0.101	0.1095		mg/Kg		109	70 - 130	27	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 880-88431/5-A
Matrix: Solid
Analysis Batch: 88469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88431

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 12:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 12:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 12:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/14/24 13:31	08/15/24 12:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/24 13:31	08/15/24 12:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/14/24 13:31	08/15/24 12:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/14/24 13:31*	*08/15/24 12:58*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/14/24 13:31*	*08/15/24 12:58*	*1*

Lab Sample ID: LCS 880-88431/1-A
Matrix: Solid
Analysis Batch: 88469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88431

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.1071		mg/Kg		107	70 - 130
Toluene			0.100	0.1099		mg/Kg		110	70 - 130
Ethylbenzene			0.100	0.1096		mg/Kg		110	70 - 130
m-Xylene & p-Xylene			0.200	0.2252		mg/Kg		113	70 - 130

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

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

Lab Sample ID: LCS 880-88431/1-A
Matrix: Solid
Analysis Batch: 88469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88431

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1120		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-88431/2-A
Matrix: Solid
Analysis Batch: 88469

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88431

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1147		mg/Kg		115	70 - 130	7	35
Toluene			0.100	0.1179		mg/Kg		118	70 - 130	7	35
Ethylbenzene			0.100	0.1176		mg/Kg		118	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2415		mg/Kg		121	70 - 130	7	35
o-Xylene			0.100	0.1200		mg/Kg		120	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-7015-21 MS
Matrix: Solid
Analysis Batch: 88469

Client Sample ID: BH 24 - 06
Prep Type: Total/NA
Prep Batch: 88431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.0996	0.1110		mg/Kg		111	70 - 130		
Toluene	<0.00198	U	0.0996	0.1151		mg/Kg		116	70 - 130		
Ethylbenzene	<0.00198	U	0.0996	0.1154		mg/Kg		116	70 - 130		
m-Xylene & p-Xylene	<0.00397	U	0.199	0.2368		mg/Kg		119	70 - 130		
o-Xylene	<0.00198	U	0.0996	0.1173		mg/Kg		118	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-7015-21 MSD
Matrix: Solid
Analysis Batch: 88469

Client Sample ID: BH 24 - 06
Prep Type: Total/NA
Prep Batch: 88431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.101	0.1092		mg/Kg		108	70 - 130	2	35
Toluene	<0.00198	U	0.101	0.1126		mg/Kg		112	70 - 130	2	35
Ethylbenzene	<0.00198	U	0.101	0.1127		mg/Kg		112	70 - 130	2	35
m-Xylene & p-Xylene	<0.00397	U	0.202	0.2316		mg/Kg		115	70 - 130	2	35
o-Xylene	<0.00198	U	0.101	0.1147		mg/Kg		114	70 - 130	2	35

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

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

Lab Sample ID: 890-7015-21 MSD
Matrix: Solid
Analysis Batch: 88469

Client Sample ID: BH 24 - 06
Prep Type: Total/NA
Prep Batch: 88431

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-88477/5-A
Matrix: Solid
Analysis Batch: 88475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88477

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/15/24 09:10	08/15/24 11:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/15/24 09:10	08/15/24 11:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/15/24 09:10	08/15/24 11:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/15/24 09:10	08/15/24 11:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/15/24 09:10	08/15/24 11:46	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/15/24 09:10	08/15/24 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/15/24 09:10	08/15/24 11:46	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/15/24 09:10	08/15/24 11:46	1

Lab Sample ID: LCS 880-88477/1-A
Matrix: Solid
Analysis Batch: 88475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88477

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1140		mg/Kg		114	70 - 130		
Toluene			0.100	0.1034		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.1055		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2131		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.1073		mg/Kg		107	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-88477/2-A
Matrix: Solid
Analysis Batch: 88475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88477

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1066		mg/Kg		107	70 - 130	7	35
Toluene			0.100	0.09631		mg/Kg		96	70 - 130	7	35
Ethylbenzene			0.100	0.09752		mg/Kg		98	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1960		mg/Kg		98	70 - 130	8	35
o-Xylene			0.100	0.09847		mg/Kg		98	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

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

Lab Sample ID: LCSD 880-88477/2-A
Matrix: Solid
Analysis Batch: 88475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88477

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

Lab Sample ID: 890-7015-41 MS
Matrix: Solid
Analysis Batch: 88475

Client Sample ID: BH 24 - 11
Prep Type: Total/NA
Prep Batch: 88477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1009		mg/Kg		101	70 - 130
Toluene	<0.00200	U	0.100	0.08981		mg/Kg		90	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09028		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1814		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.100	0.09145		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-7015-41 MSD
Matrix: Solid
Analysis Batch: 88475

Client Sample ID: BH 24 - 11
Prep Type: Total/NA
Prep Batch: 88477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1141		mg/Kg		114	70 - 130	12	35
Toluene	<0.00200	U	0.100	0.1049		mg/Kg		105	70 - 130	15	35
Ethylbenzene	<0.00200	U	0.100	0.1064		mg/Kg		106	70 - 130	16	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2120		mg/Kg		106	70 - 130	16	35
o-Xylene	<0.00200	U	0.100	0.1066		mg/Kg		107	70 - 130	15	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-88398/1-A
Matrix: Solid
Analysis Batch: 88415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88398

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/14/24 08:10	08/14/24 08:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/14/24 08:10	08/14/24 08:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/14/24 08:10	08/14/24 08:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130	08/14/24 08:10	08/14/24 08:46	1
o-Terphenyl	167	S1+	70 - 130	08/14/24 08:10	08/14/24 08:46	1

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

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

Lab Sample ID: LCS 880-88398/2-A
Matrix: Solid
Analysis Batch: 88415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88398

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1162		mg/Kg		116	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1226		mg/Kg		123	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*138*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-88398/3-A
Matrix: Solid
Analysis Batch: 88415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88398

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1185		mg/Kg		118	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1254		mg/Kg		125	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*137*	*S1+*	*70 - 130*

Lab Sample ID: 890-7015-1 MS
Matrix: Solid
Analysis Batch: 88415

Client Sample ID: BH 24 - 01
Prep Type: Total/NA
Prep Batch: 88398

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	985.3		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	1044		mg/Kg		104	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*116*		*70 - 130*

Lab Sample ID: 890-7015-1 MSD
Matrix: Solid
Analysis Batch: 88415

Client Sample ID: BH 24 - 01
Prep Type: Total/NA
Prep Batch: 88398

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	1105		mg/Kg		110	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	1168		mg/Kg		116	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

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

Lab Sample ID: 890-7015-1 MSD
Matrix: Solid
Analysis Batch: 88415

Client Sample ID: BH 24 - 01
Prep Type: Total/NA
Prep Batch: 88398

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	126		70 - 130

Lab Sample ID: MB 880-88399/1-A
Matrix: Solid
Analysis Batch: 88413

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88399

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/14/24 11:13	08/14/24 22:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/14/24 11:13	08/14/24 22:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/14/24 11:13	08/14/24 22:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	08/14/24 11:13	08/14/24 22:18	1
o-Terphenyl	110		70 - 130	08/14/24 11:13	08/14/24 22:18	1

Lab Sample ID: LCS 880-88399/2-A
Matrix: Solid
Analysis Batch: 88413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88399

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	982.7		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	783.1		mg/Kg		78	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-88399/3-A
Matrix: Solid
Analysis Batch: 88413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88399

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	975.6		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	818.5		mg/Kg		82	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	86		70 - 130

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

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

Lab Sample ID: 890-7015-21 MS
Matrix: Solid
Analysis Batch: 88413

Client Sample ID: BH 24 - 06
Prep Type: Total/NA
Prep Batch: 88399

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	1020		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	1000	877.4		mg/Kg		87	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: 890-7015-21 MSD
Matrix: Solid
Analysis Batch: 88413

Client Sample ID: BH 24 - 06
Prep Type: Total/NA
Prep Batch: 88399

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	1000		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.1	U	1000	865.8		mg/Kg		86	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: MB 880-88400/1-A
Matrix: Solid
Analysis Batch: 88415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88400

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/14/24 22:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/14/24 22:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/14/24 11:16	08/14/24 22:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*08/14/24 11:16*	*08/14/24 22:18*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/14/24 11:16*	*08/14/24 22:18*	*1*

Lab Sample ID: LCS 880-88400/2-A
Matrix: Solid
Analysis Batch: 88415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1058		mg/Kg		106	70 - 130

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

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

Lab Sample ID: LCS 880-88400/2-A
Matrix: Solid
Analysis Batch: 88415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88400

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-88400/3-A
Matrix: Solid
Analysis Batch: 88415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88400

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1048		mg/Kg		105	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1072		mg/Kg		107	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: 890-7015-41 MS
Matrix: Solid
Analysis Batch: 88415

Client Sample ID: BH 24 - 11
Prep Type: Total/NA
Prep Batch: 88400

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1049		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1127		mg/Kg		113	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: 890-7015-41 MSD
Matrix: Solid
Analysis Batch: 88415

Client Sample ID: BH 24 - 11
Prep Type: Total/NA
Prep Batch: 88400

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1031		mg/Kg		103	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1109		mg/Kg		111	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	117		70 - 130

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88437/1-A
Matrix: Solid
Analysis Batch: 88442

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/15/24 21:51	1

Lab Sample ID: LCS 880-88437/2-A
Matrix: Solid
Analysis Batch: 88442

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.4		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-88437/3-A
Matrix: Solid
Analysis Batch: 88442

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.4		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-7015-1 MS
Matrix: Solid
Analysis Batch: 88442

Client Sample ID: BH 24 - 01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	67.5	F1	252	292.4	F1	mg/Kg		89	90 - 110		

Lab Sample ID: 890-7015-1 MSD
Matrix: Solid
Analysis Batch: 88442

Client Sample ID: BH 24 - 01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	67.5	F1	252	297.4		mg/Kg		91	90 - 110	2	20

Lab Sample ID: 890-7015-11 MS
Matrix: Solid
Analysis Batch: 88442

Client Sample ID: BH 24 - 03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	8.55		251	254.4		mg/Kg		98	90 - 110		

Lab Sample ID: 890-7015-11 MSD
Matrix: Solid
Analysis Batch: 88442

Client Sample ID: BH 24 - 03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8.55		251	256.3		mg/Kg		99	90 - 110	1	20

Lab Sample ID: MB 880-88438/1-A
Matrix: Solid
Analysis Batch: 88468

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/15/24 23:48	1

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-88438/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88468

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.9		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-88438/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88468

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	249.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-7015-21 MS — **Client Sample ID: BH 24 - 06**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88468

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	50.9		248	286.7		mg/Kg		95	90 - 110		

Lab Sample ID: 890-7015-21 MSD — **Client Sample ID: BH 24 - 06**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88468

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	50.9		248	286.9		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-7015-31 MS — **Client Sample ID: BH 24 - 08**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88468

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	322	F1	249	525.6	F1	mg/Kg		82	90 - 110		

Lab Sample ID: 890-7015-31 MSD — **Client Sample ID: BH 24 - 08**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88468

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	322	F1	249	525.9	F1	mg/Kg		82	90 - 110	0	20

Lab Sample ID: MB 880-88439/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88474

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/16/24 03:57	1

Lab Sample ID: LCS 880-88439/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88474

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.7		mg/Kg		104	90 - 110		

QC Sample Results

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-88439/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88474

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	258.9		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-7015-41 MS — **Client Sample ID: BH 24 - 11**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88474

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	66.1		251	326.4		mg/Kg		104	90 - 110

Lab Sample ID: 890-7015-41 MSD — **Client Sample ID: BH 24 - 11**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88474

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	66.1		251	329.5		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-7015-51 MS — **Client Sample ID: BH 24 - 13**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88474

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	216		253	466.5		mg/Kg		99	90 - 110

Lab Sample ID: 890-7015-51 MSD — **Client Sample ID: BH 24 - 13**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 88474

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	216		253	470.8		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

GC VOA

Prep Batch: 88430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-1	BH 24 - 01	Total/NA	Solid	5035	
890-7015-2	BH 24 - 01	Total/NA	Solid	5035	
890-7015-3	BH 24 - 01	Total/NA	Solid	5035	
890-7015-4	BH 24 - 01	Total/NA	Solid	5035	
890-7015-5	BH 24 - 02	Total/NA	Solid	5035	
890-7015-6	BH 24 - 02	Total/NA	Solid	5035	
890-7015-7	BH 24 - 02	Total/NA	Solid	5035	
890-7015-8	BH 24 - 02	Total/NA	Solid	5035	
890-7015-9	BH 24 - 03	Total/NA	Solid	5035	
890-7015-10	BH 24 - 03	Total/NA	Solid	5035	
890-7015-11	BH 24 - 03	Total/NA	Solid	5035	
890-7015-12	BH 24 - 03	Total/NA	Solid	5035	
890-7015-13	BH 24 - 04	Total/NA	Solid	5035	
890-7015-14	BH 24 - 04	Total/NA	Solid	5035	
890-7015-15	BH 24 - 04	Total/NA	Solid	5035	
890-7015-16	BH 24 - 04	Total/NA	Solid	5035	
890-7015-17	BH 24 - 05	Total/NA	Solid	5035	
890-7015-18	BH 24 - 05	Total/NA	Solid	5035	
890-7015-19	BH 24 - 05	Total/NA	Solid	5035	
890-7015-20	BH 24 - 05	Total/NA	Solid	5035	
MB 880-88430/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88430/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88430/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7015-1 MS	BH 24 - 01	Total/NA	Solid	5035	
890-7015-1 MSD	BH 24 - 01	Total/NA	Solid	5035	

Prep Batch: 88431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-21	BH 24 - 06	Total/NA	Solid	5035	
890-7015-22	BH 24 - 06	Total/NA	Solid	5035	
890-7015-23	BH 24 - 06	Total/NA	Solid	5035	
890-7015-24	BH 24 - 06	Total/NA	Solid	5035	
890-7015-25	BH 24 - 07	Total/NA	Solid	5035	
890-7015-26	BH 24 - 07	Total/NA	Solid	5035	
890-7015-27	BH 24 - 07	Total/NA	Solid	5035	
890-7015-28	BH 24 - 07	Total/NA	Solid	5035	
890-7015-29	BH 24 - 08	Total/NA	Solid	5035	
890-7015-30	BH 24 - 08	Total/NA	Solid	5035	
890-7015-31	BH 24 - 08	Total/NA	Solid	5035	
890-7015-32	BH 24 - 08	Total/NA	Solid	5035	
890-7015-33	BH 24 - 09	Total/NA	Solid	5035	
890-7015-34	BH 24 - 09	Total/NA	Solid	5035	
890-7015-35	BH 24 - 09	Total/NA	Solid	5035	
890-7015-36	BH 24 - 09	Total/NA	Solid	5035	
890-7015-37	BH 24 - 10	Total/NA	Solid	5035	
890-7015-38	BH 24 - 10	Total/NA	Solid	5035	
890-7015-39	BH 24 - 10	Total/NA	Solid	5035	
890-7015-40	BH 24 - 10	Total/NA	Solid	5035	
MB 880-88431/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88431/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88431/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

GC VOA (Continued)

Prep Batch: 88431 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-21 MS	BH 24 - 06	Total/NA	Solid	5035	
890-7015-21 MSD	BH 24 - 06	Total/NA	Solid	5035	

Analysis Batch: 88469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-21	BH 24 - 06	Total/NA	Solid	8021B	88431
890-7015-22	BH 24 - 06	Total/NA	Solid	8021B	88431
890-7015-23	BH 24 - 06	Total/NA	Solid	8021B	88431
890-7015-24	BH 24 - 06	Total/NA	Solid	8021B	88431
890-7015-25	BH 24 - 07	Total/NA	Solid	8021B	88431
890-7015-26	BH 24 - 07	Total/NA	Solid	8021B	88431
890-7015-27	BH 24 - 07	Total/NA	Solid	8021B	88431
890-7015-28	BH 24 - 07	Total/NA	Solid	8021B	88431
890-7015-29	BH 24 - 08	Total/NA	Solid	8021B	88431
890-7015-30	BH 24 - 08	Total/NA	Solid	8021B	88431
890-7015-31	BH 24 - 08	Total/NA	Solid	8021B	88431
890-7015-32	BH 24 - 08	Total/NA	Solid	8021B	88431
890-7015-33	BH 24 - 09	Total/NA	Solid	8021B	88431
890-7015-34	BH 24 - 09	Total/NA	Solid	8021B	88431
890-7015-35	BH 24 - 09	Total/NA	Solid	8021B	88431
890-7015-36	BH 24 - 09	Total/NA	Solid	8021B	88431
890-7015-37	BH 24 - 10	Total/NA	Solid	8021B	88431
890-7015-38	BH 24 - 10	Total/NA	Solid	8021B	88431
890-7015-39	BH 24 - 10	Total/NA	Solid	8021B	88431
890-7015-40	BH 24 - 10	Total/NA	Solid	8021B	88431
MB 880-88431/5-A	Method Blank	Total/NA	Solid	8021B	88431
LCS 880-88431/1-A	Lab Control Sample	Total/NA	Solid	8021B	88431
LCSD 880-88431/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88431
890-7015-21 MS	BH 24 - 06	Total/NA	Solid	8021B	88431
890-7015-21 MSD	BH 24 - 06	Total/NA	Solid	8021B	88431

Analysis Batch: 88471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-1	BH 24 - 01	Total/NA	Solid	8021B	88430
890-7015-2	BH 24 - 01	Total/NA	Solid	8021B	88430
890-7015-3	BH 24 - 01	Total/NA	Solid	8021B	88430
890-7015-4	BH 24 - 01	Total/NA	Solid	8021B	88430
890-7015-5	BH 24 - 02	Total/NA	Solid	8021B	88430
890-7015-6	BH 24 - 02	Total/NA	Solid	8021B	88430
890-7015-7	BH 24 - 02	Total/NA	Solid	8021B	88430
890-7015-8	BH 24 - 02	Total/NA	Solid	8021B	88430
890-7015-9	BH 24 - 03	Total/NA	Solid	8021B	88430
890-7015-10	BH 24 - 03	Total/NA	Solid	8021B	88430
890-7015-11	BH 24 - 03	Total/NA	Solid	8021B	88430
890-7015-12	BH 24 - 03	Total/NA	Solid	8021B	88430
890-7015-13	BH 24 - 04	Total/NA	Solid	8021B	88430
890-7015-14	BH 24 - 04	Total/NA	Solid	8021B	88430
890-7015-15	BH 24 - 04	Total/NA	Solid	8021B	88430
890-7015-16	BH 24 - 04	Total/NA	Solid	8021B	88430
890-7015-17	BH 24 - 05	Total/NA	Solid	8021B	88430
890-7015-18	BH 24 - 05	Total/NA	Solid	8021B	88430

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

GC VOA (Continued)

Analysis Batch: 88471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-19	BH 24 - 05	Total/NA	Solid	8021B	88430
890-7015-20	BH 24 - 05	Total/NA	Solid	8021B	88430
MB 880-88430/5-A	Method Blank	Total/NA	Solid	8021B	88430
LCS 880-88430/1-A	Lab Control Sample	Total/NA	Solid	8021B	88430
LCSD 880-88430/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88430
890-7015-1 MS	BH 24 - 01	Total/NA	Solid	8021B	88430
890-7015-1 MSD	BH 24 - 01	Total/NA	Solid	8021B	88430

Analysis Batch: 88475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-41	BH 24 - 11	Total/NA	Solid	8021B	88477
890-7015-42	BH 24 - 11	Total/NA	Solid	8021B	88477
890-7015-43	BH 24 - 11	Total/NA	Solid	8021B	88477
890-7015-44	BH 24 - 11	Total/NA	Solid	8021B	88477
890-7015-45	BH 24 - 12	Total/NA	Solid	8021B	88477
890-7015-46	BH 24 - 12	Total/NA	Solid	8021B	88477
890-7015-47	BH 24 - 12	Total/NA	Solid	8021B	88477
890-7015-48	BH 24 - 12	Total/NA	Solid	8021B	88477
890-7015-49	BH 24 - 13	Total/NA	Solid	8021B	88477
890-7015-50	BH 24 - 13	Total/NA	Solid	8021B	88477
890-7015-51	BH 24 - 13	Total/NA	Solid	8021B	88477
890-7015-52	BH 24 - 13	Total/NA	Solid	8021B	88477
890-7015-53	BH 24 - 14	Total/NA	Solid	8021B	88477
890-7015-54	BH 24 - 14	Total/NA	Solid	8021B	88477
890-7015-55	BH 24 - 14	Total/NA	Solid	8021B	88477
890-7015-56	BH 24 - 14	Total/NA	Solid	8021B	88477
890-7015-57	BH 24 - 15	Total/NA	Solid	8021B	88477
890-7015-58	BH 24 - 15	Total/NA	Solid	8021B	88477
890-7015-59	BH 24 - 15	Total/NA	Solid	8021B	88477
890-7015-60	BH 24 - 15	Total/NA	Solid	8021B	88477
MB 880-88477/5-A	Method Blank	Total/NA	Solid	8021B	88477
LCS 880-88477/1-A	Lab Control Sample	Total/NA	Solid	8021B	88477
LCSD 880-88477/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88477
890-7015-41 MS	BH 24 - 11	Total/NA	Solid	8021B	88477
890-7015-41 MSD	BH 24 - 11	Total/NA	Solid	8021B	88477

Prep Batch: 88477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-41	BH 24 - 11	Total/NA	Solid	5035	
890-7015-42	BH 24 - 11	Total/NA	Solid	5035	
890-7015-43	BH 24 - 11	Total/NA	Solid	5035	
890-7015-44	BH 24 - 11	Total/NA	Solid	5035	
890-7015-45	BH 24 - 12	Total/NA	Solid	5035	
890-7015-46	BH 24 - 12	Total/NA	Solid	5035	
890-7015-47	BH 24 - 12	Total/NA	Solid	5035	
890-7015-48	BH 24 - 12	Total/NA	Solid	5035	
890-7015-49	BH 24 - 13	Total/NA	Solid	5035	
890-7015-50	BH 24 - 13	Total/NA	Solid	5035	
890-7015-51	BH 24 - 13	Total/NA	Solid	5035	
890-7015-52	BH 24 - 13	Total/NA	Solid	5035	
890-7015-53	BH 24 - 14	Total/NA	Solid	5035	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

GC VOA (Continued)

Prep Batch: 88477 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-54	BH 24 - 14	Total/NA	Solid	5035	
890-7015-55	BH 24 - 14	Total/NA	Solid	5035	
890-7015-56	BH 24 - 14	Total/NA	Solid	5035	
890-7015-57	BH 24 - 15	Total/NA	Solid	5035	
890-7015-58	BH 24 - 15	Total/NA	Solid	5035	
890-7015-59	BH 24 - 15	Total/NA	Solid	5035	
890-7015-60	BH 24 - 15	Total/NA	Solid	5035	
MB 880-88477/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88477/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88477/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7015-41 MS	BH 24 - 11	Total/NA	Solid	5035	
890-7015-41 MSD	BH 24 - 11	Total/NA	Solid	5035	

Analysis Batch: 88620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-1	BH 24 - 01	Total/NA	Solid	Total BTEX	
890-7015-2	BH 24 - 01	Total/NA	Solid	Total BTEX	
890-7015-3	BH 24 - 01	Total/NA	Solid	Total BTEX	
890-7015-4	BH 24 - 01	Total/NA	Solid	Total BTEX	
890-7015-5	BH 24 - 02	Total/NA	Solid	Total BTEX	
890-7015-6	BH 24 - 02	Total/NA	Solid	Total BTEX	
890-7015-7	BH 24 - 02	Total/NA	Solid	Total BTEX	
890-7015-8	BH 24 - 02	Total/NA	Solid	Total BTEX	
890-7015-9	BH 24 - 03	Total/NA	Solid	Total BTEX	
890-7015-10	BH 24 - 03	Total/NA	Solid	Total BTEX	
890-7015-11	BH 24 - 03	Total/NA	Solid	Total BTEX	
890-7015-12	BH 24 - 03	Total/NA	Solid	Total BTEX	
890-7015-13	BH 24 - 04	Total/NA	Solid	Total BTEX	
890-7015-14	BH 24 - 04	Total/NA	Solid	Total BTEX	
890-7015-15	BH 24 - 04	Total/NA	Solid	Total BTEX	
890-7015-16	BH 24 - 04	Total/NA	Solid	Total BTEX	
890-7015-17	BH 24 - 05	Total/NA	Solid	Total BTEX	
890-7015-18	BH 24 - 05	Total/NA	Solid	Total BTEX	
890-7015-19	BH 24 - 05	Total/NA	Solid	Total BTEX	
890-7015-20	BH 24 - 05	Total/NA	Solid	Total BTEX	
890-7015-21	BH 24 - 06	Total/NA	Solid	Total BTEX	
890-7015-22	BH 24 - 06	Total/NA	Solid	Total BTEX	
890-7015-23	BH 24 - 06	Total/NA	Solid	Total BTEX	
890-7015-24	BH 24 - 06	Total/NA	Solid	Total BTEX	
890-7015-25	BH 24 - 07	Total/NA	Solid	Total BTEX	
890-7015-26	BH 24 - 07	Total/NA	Solid	Total BTEX	
890-7015-27	BH 24 - 07	Total/NA	Solid	Total BTEX	
890-7015-28	BH 24 - 07	Total/NA	Solid	Total BTEX	
890-7015-29	BH 24 - 08	Total/NA	Solid	Total BTEX	
890-7015-30	BH 24 - 08	Total/NA	Solid	Total BTEX	
890-7015-31	BH 24 - 08	Total/NA	Solid	Total BTEX	
890-7015-32	BH 24 - 08	Total/NA	Solid	Total BTEX	
890-7015-33	BH 24 - 09	Total/NA	Solid	Total BTEX	
890-7015-34	BH 24 - 09	Total/NA	Solid	Total BTEX	
890-7015-35	BH 24 - 09	Total/NA	Solid	Total BTEX	
890-7015-36	BH 24 - 09	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

GC VOA (Continued)

Analysis Batch: 88620 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-37	BH 24 - 10	Total/NA	Solid	Total BTEX	
890-7015-38	BH 24 - 10	Total/NA	Solid	Total BTEX	
890-7015-39	BH 24 - 10	Total/NA	Solid	Total BTEX	
890-7015-40	BH 24 - 10	Total/NA	Solid	Total BTEX	
890-7015-41	BH 24 - 11	Total/NA	Solid	Total BTEX	
890-7015-42	BH 24 - 11	Total/NA	Solid	Total BTEX	
890-7015-43	BH 24 - 11	Total/NA	Solid	Total BTEX	
890-7015-44	BH 24 - 11	Total/NA	Solid	Total BTEX	
890-7015-45	BH 24 - 12	Total/NA	Solid	Total BTEX	
890-7015-46	BH 24 - 12	Total/NA	Solid	Total BTEX	
890-7015-47	BH 24 - 12	Total/NA	Solid	Total BTEX	
890-7015-48	BH 24 - 12	Total/NA	Solid	Total BTEX	
890-7015-49	BH 24 - 13	Total/NA	Solid	Total BTEX	
890-7015-50	BH 24 - 13	Total/NA	Solid	Total BTEX	
890-7015-51	BH 24 - 13	Total/NA	Solid	Total BTEX	
890-7015-52	BH 24 - 13	Total/NA	Solid	Total BTEX	
890-7015-53	BH 24 - 14	Total/NA	Solid	Total BTEX	
890-7015-54	BH 24 - 14	Total/NA	Solid	Total BTEX	
890-7015-55	BH 24 - 14	Total/NA	Solid	Total BTEX	
890-7015-56	BH 24 - 14	Total/NA	Solid	Total BTEX	
890-7015-57	BH 24 - 15	Total/NA	Solid	Total BTEX	
890-7015-58	BH 24 - 15	Total/NA	Solid	Total BTEX	
890-7015-59	BH 24 - 15	Total/NA	Solid	Total BTEX	
890-7015-60	BH 24 - 15	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 88398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-1	BH 24 - 01	Total/NA	Solid	8015NM Prep	
890-7015-2	BH 24 - 01	Total/NA	Solid	8015NM Prep	
890-7015-3	BH 24 - 01	Total/NA	Solid	8015NM Prep	
890-7015-4	BH 24 - 01	Total/NA	Solid	8015NM Prep	
890-7015-5	BH 24 - 02	Total/NA	Solid	8015NM Prep	
890-7015-6	BH 24 - 02	Total/NA	Solid	8015NM Prep	
890-7015-7	BH 24 - 02	Total/NA	Solid	8015NM Prep	
890-7015-8	BH 24 - 02	Total/NA	Solid	8015NM Prep	
890-7015-9	BH 24 - 03	Total/NA	Solid	8015NM Prep	
890-7015-10	BH 24 - 03	Total/NA	Solid	8015NM Prep	
890-7015-11	BH 24 - 03	Total/NA	Solid	8015NM Prep	
890-7015-12	BH 24 - 03	Total/NA	Solid	8015NM Prep	
890-7015-13	BH 24 - 04	Total/NA	Solid	8015NM Prep	
890-7015-14	BH 24 - 04	Total/NA	Solid	8015NM Prep	
890-7015-15	BH 24 - 04	Total/NA	Solid	8015NM Prep	
890-7015-16	BH 24 - 04	Total/NA	Solid	8015NM Prep	
890-7015-17	BH 24 - 05	Total/NA	Solid	8015NM Prep	
890-7015-18	BH 24 - 05	Total/NA	Solid	8015NM Prep	
890-7015-19	BH 24 - 05	Total/NA	Solid	8015NM Prep	
890-7015-20	BH 24 - 05	Total/NA	Solid	8015NM Prep	
MB 880-88398/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-88398/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

GC Semi VOA (Continued)

Prep Batch: 88398 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-88398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7015-1 MS	BH 24 - 01	Total/NA	Solid	8015NM Prep	
890-7015-1 MSD	BH 24 - 01	Total/NA	Solid	8015NM Prep	

Prep Batch: 88399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-21	BH 24 - 06	Total/NA	Solid	8015NM Prep	
890-7015-22	BH 24 - 06	Total/NA	Solid	8015NM Prep	
890-7015-23	BH 24 - 06	Total/NA	Solid	8015NM Prep	
890-7015-24	BH 24 - 06	Total/NA	Solid	8015NM Prep	
890-7015-25	BH 24 - 07	Total/NA	Solid	8015NM Prep	
890-7015-26	BH 24 - 07	Total/NA	Solid	8015NM Prep	
890-7015-27	BH 24 - 07	Total/NA	Solid	8015NM Prep	
890-7015-28	BH 24 - 07	Total/NA	Solid	8015NM Prep	
890-7015-29	BH 24 - 08	Total/NA	Solid	8015NM Prep	
890-7015-30	BH 24 - 08	Total/NA	Solid	8015NM Prep	
890-7015-31	BH 24 - 08	Total/NA	Solid	8015NM Prep	
890-7015-32	BH 24 - 08	Total/NA	Solid	8015NM Prep	
890-7015-33	BH 24 - 09	Total/NA	Solid	8015NM Prep	
890-7015-34	BH 24 - 09	Total/NA	Solid	8015NM Prep	
890-7015-35	BH 24 - 09	Total/NA	Solid	8015NM Prep	
890-7015-36	BH 24 - 09	Total/NA	Solid	8015NM Prep	
890-7015-37	BH 24 - 10	Total/NA	Solid	8015NM Prep	
890-7015-38	BH 24 - 10	Total/NA	Solid	8015NM Prep	
890-7015-39	BH 24 - 10	Total/NA	Solid	8015NM Prep	
890-7015-40	BH 24 - 10	Total/NA	Solid	8015NM Prep	
MB 880-88399/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-88399/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-88399/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7015-21 MS	BH 24 - 06	Total/NA	Solid	8015NM Prep	
890-7015-21 MSD	BH 24 - 06	Total/NA	Solid	8015NM Prep	

Prep Batch: 88400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-41	BH 24 - 11	Total/NA	Solid	8015NM Prep	
890-7015-42	BH 24 - 11	Total/NA	Solid	8015NM Prep	
890-7015-43	BH 24 - 11	Total/NA	Solid	8015NM Prep	
890-7015-44	BH 24 - 11	Total/NA	Solid	8015NM Prep	
890-7015-45	BH 24 - 12	Total/NA	Solid	8015NM Prep	
890-7015-46	BH 24 - 12	Total/NA	Solid	8015NM Prep	
890-7015-47	BH 24 - 12	Total/NA	Solid	8015NM Prep	
890-7015-48	BH 24 - 12	Total/NA	Solid	8015NM Prep	
890-7015-49	BH 24 - 13	Total/NA	Solid	8015NM Prep	
890-7015-50	BH 24 - 13	Total/NA	Solid	8015NM Prep	
890-7015-51	BH 24 - 13	Total/NA	Solid	8015NM Prep	
890-7015-52	BH 24 - 13	Total/NA	Solid	8015NM Prep	
890-7015-53	BH 24 - 14	Total/NA	Solid	8015NM Prep	
890-7015-54	BH 24 - 14	Total/NA	Solid	8015NM Prep	
890-7015-55	BH 24 - 14	Total/NA	Solid	8015NM Prep	
890-7015-56	BH 24 - 14	Total/NA	Solid	8015NM Prep	
890-7015-57	BH 24 - 15	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

GC Semi VOA (Continued)

Prep Batch: 88400 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-58	BH 24 - 15	Total/NA	Solid	8015NM Prep	
890-7015-59	BH 24 - 15	Total/NA	Solid	8015NM Prep	
890-7015-60	BH 24 - 15	Total/NA	Solid	8015NM Prep	
MB 880-88400/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-88400/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-88400/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7015-41 MS	BH 24 - 11	Total/NA	Solid	8015NM Prep	
890-7015-41 MSD	BH 24 - 11	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-21	BH 24 - 06	Total/NA	Solid	8015B NM	88399
890-7015-22	BH 24 - 06	Total/NA	Solid	8015B NM	88399
890-7015-23	BH 24 - 06	Total/NA	Solid	8015B NM	88399
890-7015-24	BH 24 - 06	Total/NA	Solid	8015B NM	88399
890-7015-25	BH 24 - 07	Total/NA	Solid	8015B NM	88399
890-7015-26	BH 24 - 07	Total/NA	Solid	8015B NM	88399
890-7015-27	BH 24 - 07	Total/NA	Solid	8015B NM	88399
890-7015-28	BH 24 - 07	Total/NA	Solid	8015B NM	88399
890-7015-29	BH 24 - 08	Total/NA	Solid	8015B NM	88399
890-7015-30	BH 24 - 08	Total/NA	Solid	8015B NM	88399
890-7015-31	BH 24 - 08	Total/NA	Solid	8015B NM	88399
890-7015-32	BH 24 - 08	Total/NA	Solid	8015B NM	88399
890-7015-33	BH 24 - 09	Total/NA	Solid	8015B NM	88399
890-7015-34	BH 24 - 09	Total/NA	Solid	8015B NM	88399
890-7015-35	BH 24 - 09	Total/NA	Solid	8015B NM	88399
890-7015-36	BH 24 - 09	Total/NA	Solid	8015B NM	88399
890-7015-37	BH 24 - 10	Total/NA	Solid	8015B NM	88399
890-7015-38	BH 24 - 10	Total/NA	Solid	8015B NM	88399
890-7015-39	BH 24 - 10	Total/NA	Solid	8015B NM	88399
890-7015-40	BH 24 - 10	Total/NA	Solid	8015B NM	88399
MB 880-88399/1-A	Method Blank	Total/NA	Solid	8015B NM	88399
LCS 880-88399/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	88399
LCSD 880-88399/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88399
890-7015-21 MS	BH 24 - 06	Total/NA	Solid	8015B NM	88399
890-7015-21 MSD	BH 24 - 06	Total/NA	Solid	8015B NM	88399

Analysis Batch: 88415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-1	BH 24 - 01	Total/NA	Solid	8015B NM	88398
890-7015-2	BH 24 - 01	Total/NA	Solid	8015B NM	88398
890-7015-3	BH 24 - 01	Total/NA	Solid	8015B NM	88398
890-7015-4	BH 24 - 01	Total/NA	Solid	8015B NM	88398
890-7015-5	BH 24 - 02	Total/NA	Solid	8015B NM	88398
890-7015-6	BH 24 - 02	Total/NA	Solid	8015B NM	88398
890-7015-7	BH 24 - 02	Total/NA	Solid	8015B NM	88398
890-7015-8	BH 24 - 02	Total/NA	Solid	8015B NM	88398
890-7015-9	BH 24 - 03	Total/NA	Solid	8015B NM	88398
890-7015-10	BH 24 - 03	Total/NA	Solid	8015B NM	88398
890-7015-11	BH 24 - 03	Total/NA	Solid	8015B NM	88398
890-7015-12	BH 24 - 03	Total/NA	Solid	8015B NM	88398

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

GC Semi VOA (Continued)

Analysis Batch: 88415 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-13	BH 24 - 04	Total/NA	Solid	8015B NM	88398
890-7015-14	BH 24 - 04	Total/NA	Solid	8015B NM	88398
890-7015-15	BH 24 - 04	Total/NA	Solid	8015B NM	88398
890-7015-16	BH 24 - 04	Total/NA	Solid	8015B NM	88398
890-7015-17	BH 24 - 05	Total/NA	Solid	8015B NM	88398
890-7015-18	BH 24 - 05	Total/NA	Solid	8015B NM	88398
890-7015-19	BH 24 - 05	Total/NA	Solid	8015B NM	88398
890-7015-20	BH 24 - 05	Total/NA	Solid	8015B NM	88398
890-7015-41	BH 24 - 11	Total/NA	Solid	8015B NM	88400
890-7015-42	BH 24 - 11	Total/NA	Solid	8015B NM	88400
890-7015-43	BH 24 - 11	Total/NA	Solid	8015B NM	88400
890-7015-44	BH 24 - 11	Total/NA	Solid	8015B NM	88400
890-7015-45	BH 24 - 12	Total/NA	Solid	8015B NM	88400
890-7015-46	BH 24 - 12	Total/NA	Solid	8015B NM	88400
890-7015-47	BH 24 - 12	Total/NA	Solid	8015B NM	88400
890-7015-48	BH 24 - 12	Total/NA	Solid	8015B NM	88400
890-7015-49	BH 24 - 13	Total/NA	Solid	8015B NM	88400
890-7015-50	BH 24 - 13	Total/NA	Solid	8015B NM	88400
890-7015-51	BH 24 - 13	Total/NA	Solid	8015B NM	88400
890-7015-52	BH 24 - 13	Total/NA	Solid	8015B NM	88400
890-7015-53	BH 24 - 14	Total/NA	Solid	8015B NM	88400
890-7015-54	BH 24 - 14	Total/NA	Solid	8015B NM	88400
890-7015-55	BH 24 - 14	Total/NA	Solid	8015B NM	88400
890-7015-56	BH 24 - 14	Total/NA	Solid	8015B NM	88400
890-7015-57	BH 24 - 15	Total/NA	Solid	8015B NM	88400
890-7015-58	BH 24 - 15	Total/NA	Solid	8015B NM	88400
890-7015-59	BH 24 - 15	Total/NA	Solid	8015B NM	88400
890-7015-60	BH 24 - 15	Total/NA	Solid	8015B NM	88400
MB 880-88398/1-A	Method Blank	Total/NA	Solid	8015B NM	88398
MB 880-88400/1-A	Method Blank	Total/NA	Solid	8015B NM	88400
LCS 880-88398/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	88398
LCS 880-88400/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	88400
LCSD 880-88398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88398
LCSD 880-88400/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88400
890-7015-1 MS	BH 24 - 01	Total/NA	Solid	8015B NM	88398
890-7015-1 MSD	BH 24 - 01	Total/NA	Solid	8015B NM	88398
890-7015-41 MS	BH 24 - 11	Total/NA	Solid	8015B NM	88400
890-7015-41 MSD	BH 24 - 11	Total/NA	Solid	8015B NM	88400

Analysis Batch: 88525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-1	BH 24 - 01	Total/NA	Solid	8015 NM	
890-7015-2	BH 24 - 01	Total/NA	Solid	8015 NM	
890-7015-3	BH 24 - 01	Total/NA	Solid	8015 NM	
890-7015-4	BH 24 - 01	Total/NA	Solid	8015 NM	
890-7015-5	BH 24 - 02	Total/NA	Solid	8015 NM	
890-7015-6	BH 24 - 02	Total/NA	Solid	8015 NM	
890-7015-7	BH 24 - 02	Total/NA	Solid	8015 NM	
890-7015-8	BH 24 - 02	Total/NA	Solid	8015 NM	
890-7015-9	BH 24 - 03	Total/NA	Solid	8015 NM	
890-7015-10	BH 24 - 03	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

GC Semi VOA (Continued)

Analysis Batch: 88525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-11	BH 24 - 03	Total/NA	Solid	8015 NM	
890-7015-12	BH 24 - 03	Total/NA	Solid	8015 NM	
890-7015-13	BH 24 - 04	Total/NA	Solid	8015 NM	
890-7015-14	BH 24 - 04	Total/NA	Solid	8015 NM	
890-7015-15	BH 24 - 04	Total/NA	Solid	8015 NM	
890-7015-16	BH 24 - 04	Total/NA	Solid	8015 NM	
890-7015-17	BH 24 - 05	Total/NA	Solid	8015 NM	
890-7015-18	BH 24 - 05	Total/NA	Solid	8015 NM	
890-7015-19	BH 24 - 05	Total/NA	Solid	8015 NM	
890-7015-20	BH 24 - 05	Total/NA	Solid	8015 NM	
890-7015-21	BH 24 - 06	Total/NA	Solid	8015 NM	
890-7015-22	BH 24 - 06	Total/NA	Solid	8015 NM	
890-7015-23	BH 24 - 06	Total/NA	Solid	8015 NM	
890-7015-24	BH 24 - 06	Total/NA	Solid	8015 NM	
890-7015-25	BH 24 - 07	Total/NA	Solid	8015 NM	
890-7015-26	BH 24 - 07	Total/NA	Solid	8015 NM	
890-7015-27	BH 24 - 07	Total/NA	Solid	8015 NM	
890-7015-28	BH 24 - 07	Total/NA	Solid	8015 NM	
890-7015-29	BH 24 - 08	Total/NA	Solid	8015 NM	
890-7015-30	BH 24 - 08	Total/NA	Solid	8015 NM	
890-7015-31	BH 24 - 08	Total/NA	Solid	8015 NM	
890-7015-32	BH 24 - 08	Total/NA	Solid	8015 NM	
890-7015-33	BH 24 - 09	Total/NA	Solid	8015 NM	
890-7015-34	BH 24 - 09	Total/NA	Solid	8015 NM	
890-7015-35	BH 24 - 09	Total/NA	Solid	8015 NM	
890-7015-36	BH 24 - 09	Total/NA	Solid	8015 NM	
890-7015-37	BH 24 - 10	Total/NA	Solid	8015 NM	
890-7015-38	BH 24 - 10	Total/NA	Solid	8015 NM	
890-7015-39	BH 24 - 10	Total/NA	Solid	8015 NM	
890-7015-40	BH 24 - 10	Total/NA	Solid	8015 NM	
890-7015-41	BH 24 - 11	Total/NA	Solid	8015 NM	
890-7015-42	BH 24 - 11	Total/NA	Solid	8015 NM	
890-7015-43	BH 24 - 11	Total/NA	Solid	8015 NM	
890-7015-44	BH 24 - 11	Total/NA	Solid	8015 NM	
890-7015-45	BH 24 - 12	Total/NA	Solid	8015 NM	
890-7015-46	BH 24 - 12	Total/NA	Solid	8015 NM	
890-7015-47	BH 24 - 12	Total/NA	Solid	8015 NM	
890-7015-48	BH 24 - 12	Total/NA	Solid	8015 NM	
890-7015-49	BH 24 - 13	Total/NA	Solid	8015 NM	
890-7015-50	BH 24 - 13	Total/NA	Solid	8015 NM	
890-7015-51	BH 24 - 13	Total/NA	Solid	8015 NM	
890-7015-52	BH 24 - 13	Total/NA	Solid	8015 NM	
890-7015-53	BH 24 - 14	Total/NA	Solid	8015 NM	
890-7015-54	BH 24 - 14	Total/NA	Solid	8015 NM	
890-7015-55	BH 24 - 14	Total/NA	Solid	8015 NM	
890-7015-56	BH 24 - 14	Total/NA	Solid	8015 NM	
890-7015-57	BH 24 - 15	Total/NA	Solid	8015 NM	
890-7015-58	BH 24 - 15	Total/NA	Solid	8015 NM	
890-7015-59	BH 24 - 15	Total/NA	Solid	8015 NM	
890-7015-60	BH 24 - 15	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

HPLC/IC

Leach Batch: 88437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-1	BH 24 - 01	Soluble	Solid	DI Leach	
890-7015-2	BH 24 - 01	Soluble	Solid	DI Leach	
890-7015-3	BH 24 - 01	Soluble	Solid	DI Leach	
890-7015-4	BH 24 - 01	Soluble	Solid	DI Leach	
890-7015-5	BH 24 - 02	Soluble	Solid	DI Leach	
890-7015-6	BH 24 - 02	Soluble	Solid	DI Leach	
890-7015-7	BH 24 - 02	Soluble	Solid	DI Leach	
890-7015-8	BH 24 - 02	Soluble	Solid	DI Leach	
890-7015-9	BH 24 - 03	Soluble	Solid	DI Leach	
890-7015-10	BH 24 - 03	Soluble	Solid	DI Leach	
890-7015-11	BH 24 - 03	Soluble	Solid	DI Leach	
890-7015-12	BH 24 - 03	Soluble	Solid	DI Leach	
890-7015-13	BH 24 - 04	Soluble	Solid	DI Leach	
890-7015-14	BH 24 - 04	Soluble	Solid	DI Leach	
890-7015-15	BH 24 - 04	Soluble	Solid	DI Leach	
890-7015-16	BH 24 - 04	Soluble	Solid	DI Leach	
890-7015-17	BH 24 - 05	Soluble	Solid	DI Leach	
890-7015-18	BH 24 - 05	Soluble	Solid	DI Leach	
890-7015-19	BH 24 - 05	Soluble	Solid	DI Leach	
890-7015-20	BH 24 - 05	Soluble	Solid	DI Leach	
MB 880-88437/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88437/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88437/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7015-1 MS	BH 24 - 01	Soluble	Solid	DI Leach	
890-7015-1 MSD	BH 24 - 01	Soluble	Solid	DI Leach	
890-7015-11 MS	BH 24 - 03	Soluble	Solid	DI Leach	
890-7015-11 MSD	BH 24 - 03	Soluble	Solid	DI Leach	

Leach Batch: 88438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-21	BH 24 - 06	Soluble	Solid	DI Leach	
890-7015-22	BH 24 - 06	Soluble	Solid	DI Leach	
890-7015-23	BH 24 - 06	Soluble	Solid	DI Leach	
890-7015-24	BH 24 - 06	Soluble	Solid	DI Leach	
890-7015-25	BH 24 - 07	Soluble	Solid	DI Leach	
890-7015-26	BH 24 - 07	Soluble	Solid	DI Leach	
890-7015-27	BH 24 - 07	Soluble	Solid	DI Leach	
890-7015-28	BH 24 - 07	Soluble	Solid	DI Leach	
890-7015-29	BH 24 - 08	Soluble	Solid	DI Leach	
890-7015-30	BH 24 - 08	Soluble	Solid	DI Leach	
890-7015-31	BH 24 - 08	Soluble	Solid	DI Leach	
890-7015-32	BH 24 - 08	Soluble	Solid	DI Leach	
890-7015-33	BH 24 - 09	Soluble	Solid	DI Leach	
890-7015-34	BH 24 - 09	Soluble	Solid	DI Leach	
890-7015-35	BH 24 - 09	Soluble	Solid	DI Leach	
890-7015-36	BH 24 - 09	Soluble	Solid	DI Leach	
890-7015-37	BH 24 - 10	Soluble	Solid	DI Leach	
890-7015-38	BH 24 - 10	Soluble	Solid	DI Leach	
890-7015-39	BH 24 - 10	Soluble	Solid	DI Leach	
890-7015-40	BH 24 - 10	Soluble	Solid	DI Leach	
MB 880-88438/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

HPLC/IC (Continued)

Leach Batch: 88438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-88438/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88438/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7015-21 MS	BH 24 - 06	Soluble	Solid	DI Leach	
890-7015-21 MSD	BH 24 - 06	Soluble	Solid	DI Leach	
890-7015-31 MS	BH 24 - 08	Soluble	Solid	DI Leach	
890-7015-31 MSD	BH 24 - 08	Soluble	Solid	DI Leach	

Leach Batch: 88439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-41	BH 24 - 11	Soluble	Solid	DI Leach	
890-7015-42	BH 24 - 11	Soluble	Solid	DI Leach	
890-7015-43	BH 24 - 11	Soluble	Solid	DI Leach	
890-7015-44	BH 24 - 11	Soluble	Solid	DI Leach	
890-7015-45	BH 24 - 12	Soluble	Solid	DI Leach	
890-7015-46	BH 24 - 12	Soluble	Solid	DI Leach	
890-7015-47	BH 24 - 12	Soluble	Solid	DI Leach	
890-7015-48	BH 24 - 12	Soluble	Solid	DI Leach	
890-7015-49	BH 24 - 13	Soluble	Solid	DI Leach	
890-7015-50	BH 24 - 13	Soluble	Solid	DI Leach	
890-7015-51	BH 24 - 13	Soluble	Solid	DI Leach	
890-7015-52	BH 24 - 13	Soluble	Solid	DI Leach	
890-7015-53	BH 24 - 14	Soluble	Solid	DI Leach	
890-7015-54	BH 24 - 14	Soluble	Solid	DI Leach	
890-7015-55	BH 24 - 14	Soluble	Solid	DI Leach	
890-7015-56	BH 24 - 14	Soluble	Solid	DI Leach	
890-7015-57	BH 24 - 15	Soluble	Solid	DI Leach	
890-7015-58	BH 24 - 15	Soluble	Solid	DI Leach	
890-7015-59	BH 24 - 15	Soluble	Solid	DI Leach	
890-7015-60	BH 24 - 15	Soluble	Solid	DI Leach	
MB 880-88439/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88439/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88439/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7015-41 MS	BH 24 - 11	Soluble	Solid	DI Leach	
890-7015-41 MSD	BH 24 - 11	Soluble	Solid	DI Leach	
890-7015-51 MS	BH 24 - 13	Soluble	Solid	DI Leach	
890-7015-51 MSD	BH 24 - 13	Soluble	Solid	DI Leach	

Analysis Batch: 88442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-1	BH 24 - 01	Soluble	Solid	300.0	88437
890-7015-2	BH 24 - 01	Soluble	Solid	300.0	88437
890-7015-3	BH 24 - 01	Soluble	Solid	300.0	88437
890-7015-4	BH 24 - 01	Soluble	Solid	300.0	88437
890-7015-5	BH 24 - 02	Soluble	Solid	300.0	88437
890-7015-6	BH 24 - 02	Soluble	Solid	300.0	88437
890-7015-7	BH 24 - 02	Soluble	Solid	300.0	88437
890-7015-8	BH 24 - 02	Soluble	Solid	300.0	88437
890-7015-9	BH 24 - 03	Soluble	Solid	300.0	88437
890-7015-10	BH 24 - 03	Soluble	Solid	300.0	88437
890-7015-11	BH 24 - 03	Soluble	Solid	300.0	88437
890-7015-12	BH 24 - 03	Soluble	Solid	300.0	88437

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

HPLC/IC (Continued)

Analysis Batch: 88442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-13	BH 24 - 04	Soluble	Solid	300.0	88437
890-7015-14	BH 24 - 04	Soluble	Solid	300.0	88437
890-7015-15	BH 24 - 04	Soluble	Solid	300.0	88437
890-7015-16	BH 24 - 04	Soluble	Solid	300.0	88437
890-7015-17	BH 24 - 05	Soluble	Solid	300.0	88437
890-7015-18	BH 24 - 05	Soluble	Solid	300.0	88437
890-7015-19	BH 24 - 05	Soluble	Solid	300.0	88437
890-7015-20	BH 24 - 05	Soluble	Solid	300.0	88437
MB 880-88437/1-A	Method Blank	Soluble	Solid	300.0	88437
LCS 880-88437/2-A	Lab Control Sample	Soluble	Solid	300.0	88437
LCSD 880-88437/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88437
890-7015-1 MS	BH 24 - 01	Soluble	Solid	300.0	88437
890-7015-1 MSD	BH 24 - 01	Soluble	Solid	300.0	88437
890-7015-11 MS	BH 24 - 03	Soluble	Solid	300.0	88437
890-7015-11 MSD	BH 24 - 03	Soluble	Solid	300.0	88437

Analysis Batch: 88468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-21	BH 24 - 06	Soluble	Solid	300.0	88438
890-7015-22	BH 24 - 06	Soluble	Solid	300.0	88438
890-7015-23	BH 24 - 06	Soluble	Solid	300.0	88438
890-7015-24	BH 24 - 06	Soluble	Solid	300.0	88438
890-7015-25	BH 24 - 07	Soluble	Solid	300.0	88438
890-7015-26	BH 24 - 07	Soluble	Solid	300.0	88438
890-7015-27	BH 24 - 07	Soluble	Solid	300.0	88438
890-7015-28	BH 24 - 07	Soluble	Solid	300.0	88438
890-7015-29	BH 24 - 08	Soluble	Solid	300.0	88438
890-7015-30	BH 24 - 08	Soluble	Solid	300.0	88438
890-7015-31	BH 24 - 08	Soluble	Solid	300.0	88438
890-7015-32	BH 24 - 08	Soluble	Solid	300.0	88438
890-7015-33	BH 24 - 09	Soluble	Solid	300.0	88438
890-7015-34	BH 24 - 09	Soluble	Solid	300.0	88438
890-7015-35	BH 24 - 09	Soluble	Solid	300.0	88438
890-7015-36	BH 24 - 09	Soluble	Solid	300.0	88438
890-7015-37	BH 24 - 10	Soluble	Solid	300.0	88438
890-7015-38	BH 24 - 10	Soluble	Solid	300.0	88438
890-7015-39	BH 24 - 10	Soluble	Solid	300.0	88438
890-7015-40	BH 24 - 10	Soluble	Solid	300.0	88438
MB 880-88438/1-A	Method Blank	Soluble	Solid	300.0	88438
LCS 880-88438/2-A	Lab Control Sample	Soluble	Solid	300.0	88438
LCSD 880-88438/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88438
890-7015-21 MS	BH 24 - 06	Soluble	Solid	300.0	88438
890-7015-21 MSD	BH 24 - 06	Soluble	Solid	300.0	88438
890-7015-31 MS	BH 24 - 08	Soluble	Solid	300.0	88438
890-7015-31 MSD	BH 24 - 08	Soluble	Solid	300.0	88438

Analysis Batch: 88474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-41	BH 24 - 11	Soluble	Solid	300.0	88439
890-7015-42	BH 24 - 11	Soluble	Solid	300.0	88439
890-7015-43	BH 24 - 11	Soluble	Solid	300.0	88439

QC Association Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

HPLC/IC (Continued)

Analysis Batch: 88474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7015-44	BH 24 - 11	Soluble	Solid	300.0	88439
890-7015-45	BH 24 - 12	Soluble	Solid	300.0	88439
890-7015-46	BH 24 - 12	Soluble	Solid	300.0	88439
890-7015-47	BH 24 - 12	Soluble	Solid	300.0	88439
890-7015-48	BH 24 - 12	Soluble	Solid	300.0	88439
890-7015-49	BH 24 - 13	Soluble	Solid	300.0	88439
890-7015-50	BH 24 - 13	Soluble	Solid	300.0	88439
890-7015-51	BH 24 - 13	Soluble	Solid	300.0	88439
890-7015-52	BH 24 - 13	Soluble	Solid	300.0	88439
890-7015-53	BH 24 - 14	Soluble	Solid	300.0	88439
890-7015-54	BH 24 - 14	Soluble	Solid	300.0	88439
890-7015-55	BH 24 - 14	Soluble	Solid	300.0	88439
890-7015-56	BH 24 - 14	Soluble	Solid	300.0	88439
890-7015-57	BH 24 - 15	Soluble	Solid	300.0	88439
890-7015-58	BH 24 - 15	Soluble	Solid	300.0	88439
890-7015-59	BH 24 - 15	Soluble	Solid	300.0	88439
890-7015-60	BH 24 - 15	Soluble	Solid	300.0	88439
MB 880-88439/1-A	Method Blank	Soluble	Solid	300.0	88439
LCS 880-88439/2-A	Lab Control Sample	Soluble	Solid	300.0	88439
LCSD 880-88439/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88439
890-7015-41 MS	BH 24 - 11	Soluble	Solid	300.0	88439
890-7015-41 MSD	BH 24 - 11	Soluble	Solid	300.0	88439
890-7015-51 MS	BH 24 - 13	Soluble	Solid	300.0	88439
890-7015-51 MSD	BH 24 - 13	Soluble	Solid	300.0	88439

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 01
Date Collected: 08/09/24 09:34
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 12:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 12:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 14:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 14:54	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/15/24 22:14	CH	EET MID

Client Sample ID: BH 24 - 01
Date Collected: 08/09/24 09:38
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 13:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 15:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 15:46	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/15/24 22:36	CH	EET MID

Client Sample ID: BH 24 - 01
Date Collected: 08/09/24 09:42
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 13:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 13:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 16:03	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/15/24 22:43	CH	EET MID

Client Sample ID: BH 24 - 01
Date Collected: 08/09/24 09:45
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 14:09	SM	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 01
Date Collected: 08/09/24 09:45
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			88525	08/14/24 16:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 16:20	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/15/24 22:50	CH	EET MID

Client Sample ID: BH 24 - 02
Date Collected: 08/09/24 09:54
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 14:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 14:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 16:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 16:37	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/15/24 22:58	CH	EET MID

Client Sample ID: BH 24 - 02
Date Collected: 08/09/24 09:59
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 15:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 15:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 16:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 16:54	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/15/24 23:20	CH	EET MID

Client Sample ID: BH 24 - 02
Date Collected: 08/09/24 10:05
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 15:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 15:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 17:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 17:12	TKC	EET MID

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Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 02
Date Collected: 08/09/24 10:05
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/15/24 23:27	CH	EET MID

Client Sample ID: BH 24 - 02
Date Collected: 08/09/24 10:09
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 15:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 17:29	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/15/24 23:35	CH	EET MID

Client Sample ID: BH 24 - 03
Date Collected: 08/09/24 10:12
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 16:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 16:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 17:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 17:51	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/15/24 23:42	CH	EET MID

Client Sample ID: BH 24 - 03
Date Collected: 08/09/24 10:15
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 16:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 16:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 18:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 18:09	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/15/24 23:50	CH	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 03

Date Collected: 08/09/24 10:20
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 18:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 18:42	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/15/24 23:57	CH	EET MID

Client Sample ID: BH 24 - 03

Date Collected: 08/09/24 10:24
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 19:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 19:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 18:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 18:59	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/16/24 00:19	CH	EET MID

Client Sample ID: BH 24 - 04

Date Collected: 08/09/24 10:29
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 19:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 19:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 19:16	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/16/24 00:27	CH	EET MID

Client Sample ID: BH 24 - 04

Date Collected: 08/09/24 10:35
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 20:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 20:04	SM	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 04
Date Collected: 08/09/24 10:35
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			88525	08/14/24 19:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 19:33	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/16/24 00:49	CH	EET MID

Client Sample ID: BH 24 - 04
Date Collected: 08/09/24 10:38
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 20:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 20:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 19:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 19:50	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/16/24 00:56	CH	EET MID

Client Sample ID: BH 24 - 04
Date Collected: 08/09/24 10:43
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 20:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 20:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 20:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 20:07	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/16/24 01:04	CH	EET MID

Client Sample ID: BH 24 - 05
Date Collected: 08/09/24 10:47
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 21:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 21:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 20:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 20:24	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 05
Date Collected: 08/09/24 10:47
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/16/24 01:11	CH	EET MID

Client Sample ID: BH 24 - 05
Date Collected: 08/09/24 10:51
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 21:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 21:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 20:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 20:40	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/16/24 01:18	CH	EET MID

Client Sample ID: BH 24 - 05
Date Collected: 08/09/24 10:54
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 22:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 22:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 20:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 20:56	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/16/24 01:26	CH	EET MID

Client Sample ID: BH 24 - 05
Date Collected: 08/09/24 10:57
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	88430	08/14/24 13:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/15/24 22:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 22:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 21:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	88398	08/14/24 11:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 21:12	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88437	08/14/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88442	08/16/24 01:33	CH	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 06
Date Collected: 08/09/24 11:02
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 13:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 13:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 23:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/14/24 23:06	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 00:06	CH	EET MID

Client Sample ID: BH 24 - 06
Date Collected: 08/09/24 11:09
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 13:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 13:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 23:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/14/24 23:54	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 00:24	CH	EET MID

Client Sample ID: BH 24 - 06
Date Collected: 08/09/24 11:13
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 14:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 14:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 00:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 00:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 00:30	CH	EET MID

Client Sample ID: BH 24 - 06
Date Collected: 08/09/24 11:17
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 14:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 14:22	SM	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 06
Date Collected: 08/09/24 11:17
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			88525	08/15/24 00:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 00:26	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 00:36	CH	EET MID

Client Sample ID: BH 24 - 07
Date Collected: 08/09/24 11:22
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 14:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 14:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 00:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 00:42	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 00:42	CH	EET MID

Client Sample ID: BH 24 - 07
Date Collected: 08/09/24 11:25
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 15:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 15:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 00:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 00:58	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 01:00	CH	EET MID

Client Sample ID: BH 24 - 07
Date Collected: 08/09/24 11:29
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 15:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 15:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 01:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 01:14	TKC	EET MID

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Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 07
Date Collected: 08/09/24 11:29
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 01:06	CH	EET MID

Client Sample ID: BH 24 - 07
Date Collected: 08/09/24 11:34
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 15:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 01:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 01:30	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 01:12	CH	EET MID

Client Sample ID: BH 24 - 08
Date Collected: 08/09/24 11:44
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 16:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 16:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 01:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 01:46	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 01:18	CH	EET MID

Client Sample ID: BH 24 - 08
Date Collected: 08/09/24 11:49
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 16:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 16:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 02:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 02:02	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 01:24	CH	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 08

Lab Sample ID: 890-7015-31
Matrix: Solid
Date Collected: 08/09/24 11:54
Date Received: 08/13/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 18:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 18:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 02:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 02:34	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 01:30	CH	EET MID

Client Sample ID: BH 24 - 08

Lab Sample ID: 890-7015-32
Matrix: Solid
Date Collected: 08/09/24 11:59
Date Received: 08/13/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 18:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 18:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 02:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 02:50	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 01:48	CH	EET MID

Client Sample ID: BH 24 - 09

Lab Sample ID: 890-7015-33
Matrix: Solid
Date Collected: 08/09/24 12:52
Date Received: 08/13/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 18:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 18:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 03:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 03:06	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 01:54	CH	EET MID

Client Sample ID: BH 24 - 09

Lab Sample ID: 890-7015-34
Matrix: Solid
Date Collected: 08/09/24 12:57
Date Received: 08/13/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 19:03	SM	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 09
Date Collected: 08/09/24 12:57
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			88525	08/15/24 03:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 03:22	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 02:13	CH	EET MID

Client Sample ID: BH 24 - 09
Date Collected: 08/09/24 13:02
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 19:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 19:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 03:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 03:38	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 02:19	CH	EET MID

Client Sample ID: BH 24 - 09
Date Collected: 08/09/24 13:06
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 19:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 19:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 03:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 03:54	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 02:25	CH	EET MID

Client Sample ID: BH 24 - 10
Date Collected: 08/09/24 13:14
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 20:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 20:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 04:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 04:09	TKC	EET MID

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Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 10
Date Collected: 08/09/24 13:14
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 02:31	CH	EET MID

Client Sample ID: BH 24 - 10
Date Collected: 08/09/24 13:17
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 20:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 20:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 04:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 04:26	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 02:37	CH	EET MID

Client Sample ID: BH 24 - 10
Date Collected: 08/09/24 13:21
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 20:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 20:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 04:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 04:42	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 02:43	CH	EET MID

Client Sample ID: BH 24 - 10
Date Collected: 08/09/24 13:24
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	88431	08/14/24 13:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88469	08/15/24 21:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 21:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 04:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	88399	08/14/24 11:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/15/24 04:58	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88438	08/14/24 15:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88468	08/16/24 02:49	CH	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 11
Date Collected: 08/09/24 13:30
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 12:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 12:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 23:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 23:06	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 04:19	CH	EET MID

Client Sample ID: BH 24 - 11
Date Collected: 08/09/24 13:35
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 12:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 12:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/14/24 23:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/14/24 23:54	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 04:41	CH	EET MID

Client Sample ID: BH 24 - 11
Date Collected: 08/09/24 13:39
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 12:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 00:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 00:09	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 04:48	CH	EET MID

Client Sample ID: BH 24 - 11
Date Collected: 08/09/24 13:44
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 13:09	SM	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 11
Date Collected: 08/09/24 13:44
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			88525	08/15/24 00:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 00:26	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 04:55	CH	EET MID

Client Sample ID: BH 24 - 12
Date Collected: 08/09/24 13:49
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 13:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 00:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 00:42	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 05:02	CH	EET MID

Client Sample ID: BH 24 - 12
Date Collected: 08/09/24 13:54
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 13:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 13:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 00:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 00:58	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 05:24	CH	EET MID

Client Sample ID: BH 24 - 12
Date Collected: 08/09/24 13:59
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 14:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 01:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 01:14	TKC	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 12

Lab Sample ID: 890-7015-47
Matrix: Solid
Date Collected: 08/09/24 13:59
Date Received: 08/13/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 05:32	CH	EET MID

Client Sample ID: BH 24 - 12

Lab Sample ID: 890-7015-48
Matrix: Solid
Date Collected: 08/09/24 14:03
Date Received: 08/13/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 14:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 01:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 01:30	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 05:39	CH	EET MID

Client Sample ID: BH 24 - 13

Lab Sample ID: 890-7015-49
Matrix: Solid
Date Collected: 08/09/24 14:10
Date Received: 08/13/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 14:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 14:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 01:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 01:46	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 05:46	CH	EET MID

Client Sample ID: BH 24 - 13

Lab Sample ID: 890-7015-50
Matrix: Solid
Date Collected: 08/09/24 14:15
Date Received: 08/13/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 15:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 15:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 02:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 02:02	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 05:53	CH	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 13

Lab Sample ID: 890-7015-51
Matrix: Solid
Date Collected: 08/09/24 14:20
Date Received: 08/13/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 16:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 16:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 02:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 02:34	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 06:01	CH	EET MID

Client Sample ID: BH 24 - 13

Lab Sample ID: 890-7015-52
Matrix: Solid
Date Collected: 08/09/24 14:24
Date Received: 08/13/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 16:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 16:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 02:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 02:50	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 06:23	CH	EET MID

Client Sample ID: BH 24 - 14

Lab Sample ID: 890-7015-53
Matrix: Solid
Date Collected: 08/09/24 14:34
Date Received: 08/13/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 17:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 03:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 03:06	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 06:30	CH	EET MID

Client Sample ID: BH 24 - 14

Lab Sample ID: 890-7015-54
Matrix: Solid
Date Collected: 08/09/24 14:37
Date Received: 08/13/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 17:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 17:39	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 14
Date Collected: 08/09/24 14:37
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			88525	08/15/24 03:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 03:22	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 06:52	CH	EET MID

Client Sample ID: BH 24 - 14
Date Collected: 08/09/24 14:42
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-55
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 18:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 03:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 03:38	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 06:59	CH	EET MID

Client Sample ID: BH 24 - 14
Date Collected: 08/09/24 14:47
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-56
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 18:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 03:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 03:54	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 07:07	CH	EET MID

Client Sample ID: BH 24 - 15
Date Collected: 08/09/24 14:53
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 18:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 04:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 04:09	TKC	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Client Sample ID: BH 24 - 15
Date Collected: 08/09/24 14:53
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 07:14	CH	EET MID

Client Sample ID: BH 24 - 15
Date Collected: 08/09/24 14:57
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 19:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 04:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 04:26	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 07:21	CH	EET MID

Client Sample ID: BH 24 - 15
Date Collected: 08/09/24 15:04
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-59
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 19:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 04:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 04:42	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 07:28	CH	EET MID

Client Sample ID: BH 24 - 15
Date Collected: 08/09/24 15:09
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-60
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88477	08/15/24 09:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/15/24 19:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 19:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			88525	08/15/24 04:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	88400	08/14/24 11:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88415	08/15/24 04:58	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88439	08/14/24 15:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88474	08/16/24 07:36	CH	EET MID

Lab Chronicle

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Laboratory References:

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7015-1	BH 24 - 01	Solid	08/09/24 09:34	08/13/24 13:38	1
890-7015-2	BH 24 - 01	Solid	08/09/24 09:38	08/13/24 13:38	2
890-7015-3	BH 24 - 01	Solid	08/09/24 09:42	08/13/24 13:38	3
890-7015-4	BH 24 - 01	Solid	08/09/24 09:45	08/13/24 13:38	4
890-7015-5	BH 24 - 02	Solid	08/09/24 09:54	08/13/24 13:38	1
890-7015-6	BH 24 - 02	Solid	08/09/24 09:59	08/13/24 13:38	2
890-7015-7	BH 24 - 02	Solid	08/09/24 10:05	08/13/24 13:38	3
890-7015-8	BH 24 - 02	Solid	08/09/24 10:09	08/13/24 13:38	4
890-7015-9	BH 24 - 03	Solid	08/09/24 10:12	08/13/24 13:38	1
890-7015-10	BH 24 - 03	Solid	08/09/24 10:15	08/13/24 13:38	2
890-7015-11	BH 24 - 03	Solid	08/09/24 10:20	08/13/24 13:38	3
890-7015-12	BH 24 - 03	Solid	08/09/24 10:24	08/13/24 13:38	4
890-7015-13	BH 24 - 04	Solid	08/09/24 10:29	08/13/24 13:38	1
890-7015-14	BH 24 - 04	Solid	08/09/24 10:35	08/13/24 13:38	2
890-7015-15	BH 24 - 04	Solid	08/09/24 10:38	08/13/24 13:38	3
890-7015-16	BH 24 - 04	Solid	08/09/24 10:43	08/13/24 13:38	4
890-7015-17	BH 24 - 05	Solid	08/09/24 10:47	08/13/24 13:38	1
890-7015-18	BH 24 - 05	Solid	08/09/24 10:51	08/13/24 13:38	2
890-7015-19	BH 24 - 05	Solid	08/09/24 10:54	08/13/24 13:38	3
890-7015-20	BH 24 - 05	Solid	08/09/24 10:57	08/13/24 13:38	4
890-7015-21	BH 24 - 06	Solid	08/09/24 11:02	08/13/24 13:38	1
890-7015-22	BH 24 - 06	Solid	08/09/24 11:09	08/13/24 13:38	2
890-7015-23	BH 24 - 06	Solid	08/09/24 11:13	08/13/24 13:38	3
890-7015-24	BH 24 - 06	Solid	08/09/24 11:17	08/13/24 13:38	4
890-7015-25	BH 24 - 07	Solid	08/09/24 11:22	08/13/24 13:38	1
890-7015-26	BH 24 - 07	Solid	08/09/24 11:25	08/13/24 13:38	2
890-7015-27	BH 24 - 07	Solid	08/09/24 11:29	08/13/24 13:38	3
890-7015-28	BH 24 - 07	Solid	08/09/24 11:34	08/13/24 13:38	4
890-7015-29	BH 24 - 08	Solid	08/09/24 11:44	08/13/24 13:38	1
890-7015-30	BH 24 - 08	Solid	08/09/24 11:49	08/13/24 13:38	2
890-7015-31	BH 24 - 08	Solid	08/09/24 11:54	08/13/24 13:38	3
890-7015-32	BH 24 - 08	Solid	08/09/24 11:59	08/13/24 13:38	4
890-7015-33	BH 24 - 09	Solid	08/09/24 12:52	08/13/24 13:38	1
890-7015-34	BH 24 - 09	Solid	08/09/24 12:57	08/13/24 13:38	2
890-7015-35	BH 24 - 09	Solid	08/09/24 13:02	08/13/24 13:38	3
890-7015-36	BH 24 - 09	Solid	08/09/24 13:06	08/13/24 13:38	4
890-7015-37	BH 24 - 10	Solid	08/09/24 13:14	08/13/24 13:38	1
890-7015-38	BH 24 - 10	Solid	08/09/24 13:17	08/13/24 13:38	2
890-7015-39	BH 24 - 10	Solid	08/09/24 13:21	08/13/24 13:38	3
890-7015-40	BH 24 - 10	Solid	08/09/24 13:24	08/13/24 13:38	4
890-7015-41	BH 24 - 11	Solid	08/09/24 13:30	08/13/24 13:38	1
890-7015-42	BH 24 - 11	Solid	08/09/24 13:35	08/13/24 13:38	2
890-7015-43	BH 24 - 11	Solid	08/09/24 13:39	08/13/24 13:38	3
890-7015-44	BH 24 - 11	Solid	08/09/24 13:44	08/13/24 13:38	4
890-7015-45	BH 24 - 12	Solid	08/09/24 13:49	08/13/24 13:38	1
890-7015-46	BH 24 - 12	Solid	08/09/24 13:54	08/13/24 13:38	2
890-7015-47	BH 24 - 12	Solid	08/09/24 13:59	08/13/24 13:38	3
890-7015-48	BH 24 - 12	Solid	08/09/24 14:03	08/13/24 13:38	4
890-7015-49	BH 24 - 13	Solid	08/09/24 14:10	08/13/24 13:38	1
890-7015-50	BH 24 - 13	Solid	08/09/24 14:15	08/13/24 13:38	2
890-7015-51	BH 24 - 13	Solid	08/09/24 14:20	08/13/24 13:38	3
890-7015-52	BH 24 - 13	Solid	08/09/24 14:24	08/13/24 13:38	4
890-7015-53	BH 24 - 14	Solid	08/09/24 14:34	08/13/24 13:38	1
890-7015-54	BH 24 - 14	Solid	08/09/24 14:37	08/13/24 13:38	2

Sample Summary

Client: Vertex
Project/Site: Landes to SRO Line

Job ID: 890-7015-1
SDG: 24E - 03618

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7015-55	BH 24 - 14	Solid	08/09/24 14:42	08/13/24 13:38	3
890-7015-56	BH 24 - 14	Solid	08/09/24 14:47	08/13/24 13:38	4
890-7015-57	BH 24 - 15	Solid	08/09/24 14:53	08/13/24 13:38	1
890-7015-58	BH 24 - 15	Solid	08/09/24 14:57	08/13/24 13:38	2
890-7015-59	BH 24 - 15	Solid	08/09/24 15:04	08/13/24 13:38	3
890-7015-60	BH 24 - 15	Solid	08/09/24 15:09	08/13/24 13:38	4

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-31

890-7015 Chain of Custody

Page 1 of 6

Project Manager:	Chad Hensley	Bill to: (if different)	Travis Gentz
Company Name:	Vertex resource	Company Name:	Dalbo Holdings Inc
Address:	3101 Boyd Drive	Address:	355 South 1000 East
City, State ZIP:	carlsbad, NM, 88220	City, State ZIP:	vernal, UTAH, 84078
Phone:	575-361-9639	Email:	RPlogger@vertex.ca, CHensley@vertexresource.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Landes to SRO line	Turn Around	
Project Number:	24E-03618	☑ Routine ☐ Rush	
Project Location:	malaga, NM	Due Date:	5 day
Sampler's Name:	Riley Plogger	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	8833		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR#100
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.2
Total Containers:		Corrected Temperature:	5.0

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: NaSO$_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	BTEX	TPH (GRO, DRO, MRO)	Chloride	Sample Comments
BH24-01		8.9.24	9:34	1'		1		X	X	X	
BH24-01			9:38	2'							
BH24-01			9:42	3'							
BH24-01			9:45	4'							
BH24-02			9:54	1'							
BH24-02			9:59	2'							
BH24-02			10:05	3'							
BH24-02			10:09	4'							
BH24-03			10:12	1'							
BH24-03		↓	10:15	2'	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1 Riley Plogger		8/13 1358	2		
3			4		
5			6		

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Work Order No: _____

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Project Manager:	Chad Hensley	Bill to: (if different)	Travis Gentr
Company Name:	Vertex resource	Company Name:	DHI
Address:	3101 Boyd dr	Address:	355 South 1000 East
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	Vernal, Utah, 84078
Phone:	575-361-9639 Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Landes to SE0 line	Turn Around	
Project Number:	24E-03618	☑ Routine ☐ Rush	
Project Location:	Malaga, NM	Due Date:	
Sampler's Name:	Riley Flogger	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	8833		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR#00
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.2
Total Containers:		Corrected Temperature:	5.2

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	BTEX	TPH (GRO, DRO, MRO)	Chloride	Sample Comments
BH24-03		8.9.24	10:20	3'		1		X	X	X	
BH24-03			10:24	4'							
BH24-04			10:29	1'							
BH24-04			10:35	2'							
BH24-04			10:38	3'							
BH24-04			10:43	4'							
BH24-05			10:47	1'							
BH24-05			10:51	2'							
BH24-05			10:54	3'							
BH24-05			10:57	4'							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1 R. Flogger		8/13 1338	2		
3			4		
5			6		

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Work Order No: _____

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Project Manager:	Chad Hensley	Bill to: (if different)	Travis Gentz
Company Name:	Vertex Resource	Company Name:	DHI
Address:	3101 Boyd dr	Address:	355 South 1000 East
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	Vernal, Utah, 84078
Phone:	575-361-9639	Email:	rflogger@vertexresource.com, chensley@vertexresource.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Canoes to SRO line	Turn Around	
Project Number:	24E-03618	☑ Routine ☐ Rush	
Project Location:	Malaga, NM	Due Date:	
Sampler's Name:	Riley Flogger	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	8833		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.2
Total Containers:		Corrected Temperature:	5.0

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	ANALYSIS REQUEST: BTEX	TPH (GRO, DRO, MRO)	Chloride	Sample Comments
BH24-06		8.9.24	11:02	1		1		x	x	x	
BH24-06			11:09	2							
BH24-06			11:13	3							
BH24-06			11:17	4							
BH24-07			11:22	1							
BH24-07			11:25	2							
BH24-07			11:29	3							
BH24-07			11:34	4							
BH24-08			11:44	1							
BH24-08		↓	11:49	2	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1 R. Flogger	Sunny	8/13 1338	2		
3			4		
5			6		

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Project Manager:	Chad Hensley	Bill to: (if different)	Travis Greatz
Company Name:	Vertex resource	Company Name:	DHI
Address:	3101 Boyd dr	Address:	355 South 1000 East
City, State ZIP:	Carlsbad, Nm, 88220	City, State ZIP:	Vernal, Utah, 84078
Phone:	575-361-9634 Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Landes to SRO line	Turn Around	
Project Number:	24E-03618	☑ Routine ☐ Rush	
Project Location:	Malaga, Nm	Due Date:	
Sampler's Name:	Riley Plogger	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	8833		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TM002
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.2
Total Containers:		Corrected Temperature:	5.0

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	BTEX	TPH (GRO, DRO, MRO)	Chloride	Sample Comments
BH24-08		8.9.24	11:54	3		1		X	X	X	
BH24-08			11:59	4							
BH24-09			12:52	1							
BH24-09			12:57	2							
BH24-09			1:02	3							
BH24-09			1:06	4							
BH24-10			1:14	1							
BH24-10			1:17	2							
BH24-10			1:21	3							
BH24-10			1:24	4							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	R. Plogger		8/13 1338	2		
3				4		
5				6		

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Chad Hensley	Bill to: (if different)	Travis Gentz
Company Name:	Vertex Resource	Company Name:	DHI
Address:	3101 Boyd dr	Address:	355 South 1000 East
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	Vernal, Utah, 84078
Phone:	575-361-9639	Email:	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Landes to Sko line	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location:	Malaga, NM	Due Date:	
Sampler's Name:	Riley Flogger	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	Tamoo
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.2
Total Containers:		Corrected Temperature:	5.0

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	BTEX	TPH (GRO, DRO, mRO)	Chloride	Sample Comments
BH24-11		8.9.24	1:30	1		1		x	x	x	
BH24-11			1:35	2							
BH24-11			1:39	3							
BH24-11			1:44	4							
BH24-12			1:49	1							
BH24-12			1:54	2							
BH24-12			1:59	3							
BH24-12			2:03	4							
BH24-13			2:10	1							
BH24-13			2:15	2							

Parameters

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	R. Flogger	Burns	8/13 1336			
3				4		
5				6		

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Work Order No: _____

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Project Manager:	Chad Hensley	Bill to: (if different)	~~Delby Holdings~~ RP Travis Gentz
Company Name:	Vertex Resource	Company Name:	DHI
Address:	3101 Boyd dr	Address:	355 South 1000 East
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	Vernal, Utah, 84078
Phone:	575-361-9634	Email:	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Candles to Sico line	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location:	Malaga, NM	Due Date:	
Sampler's Name:	Riley Flogger	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR002
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.2
Total Containers:		Corrected Temperature:	5.0

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	Chloride	Sample Comments
BH24-13		8.9.24	2:20	3		1					
BH24-13			2:24	4							
BH24-14			2:34	1							
BH24-14			2:37	2							
BH24-14			2:42	3							
BH24-14			2:47	4							
BH24-15			2:53	1							
BH24-15			2:57	2							
BH24-15			3:04	3							
BH24-15		↓	3:04	4	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
~~Circle Method(s) and Metal(s) to be analyzed~~ TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	R. Flogger	Sam S	8/13 1338	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Vertex

Job Number: 890-7015-1
SDG Number: 24E - 03618

Login Number: 7015
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Vertex

Job Number: 890-7015-1
SDG Number: 24E - 03618

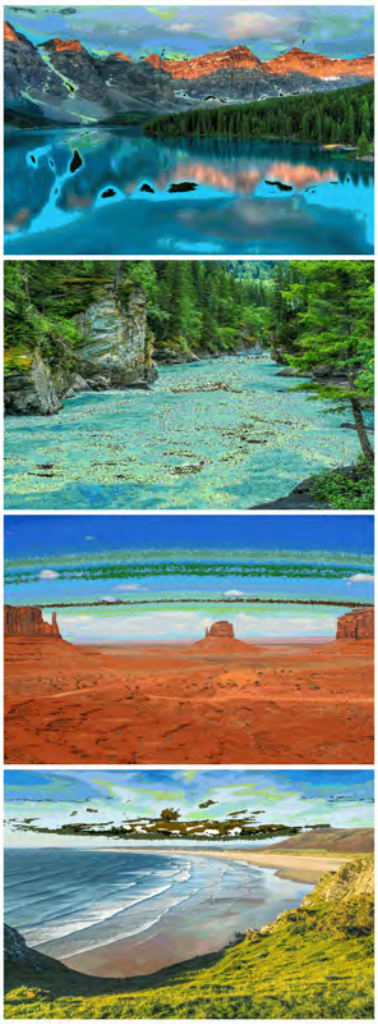
Login Number: 7015
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 08/14/24 09:40 AM

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

Report to:

Chad Hensley



5796 U.S. Hwy 64
Farmington, NM 87401

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Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name:	DHI Landes to SRO Line
Work Order:	E412196
Job Number:	24089-0001
Received:	12/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/2/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/2/25

Chad Hensley
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: DHI Landes to SRO Line
Workorder: E412196
Date Received: 12/30/2024 7:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/30/2024 7:00:00AM, under the Project Name: DHI Landes to SRO Line.

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

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

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

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

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Table of Contents

Title Page 1

Cover Page 2

Table of Contents 3

Sample Summary 5

Sample Data 6

BES24-01 @ 1’ 6

BES24-02 @ 1’ 7

BES24-03 @ 1’ 8

BES24-04 @ 1’ 9

BES24-05 @ 1’ 10

BES24-06 @ 1’ 11

BES24-07 @ 1’ 12

BES24-08 @ 1’ 13

BES24-09 @ 1’ 14

BES24-10 @ 1’ 15

BES24-11 @ 1’ 16

BES24-12 @ 1’ 17

BES24-13 @ 1’ 18

BES24-14 @ 3.5’ 19

BES24-15 @ 5’ 20

BES24-16 @ 5’ 21

BES24-17 @ 5’ 22

BES24-18 @ 5’ 23

BES24-19 @ 5’ 24

BES24-20 @ 5’ 25

Table of Contents (continued)

QC Summary Data 26

QC - Volatile Organics by EPA 8021B 26

QC - Nonhalogenated Organics by EPA 8015D - GRO 27

QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO 28

QC - Anions by EPA 300.0/9056A 29

Definitions and Notes 30

Chain of Custody etc. 31

Sample Summary

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	01/02/25 13:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BES24-01 @ 1'	E412196-01A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-02 @ 1'	E412196-02A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-03 @ 1'	E412196-03A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-04 @ 1'	E412196-04A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-05 @ 1'	E412196-05A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-06 @ 1'	E412196-06A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-07 @ 1'	E412196-07A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-08 @ 1'	E412196-08A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-09 @ 1'	E412196-09A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-10 @ 1'	E412196-10A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-11 @ 1'	E412196-11A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-12 @ 1'	E412196-12A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-13 @ 1'	E412196-13A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-14 @ 3.5'	E412196-14A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-15 @ 5'	E412196-15A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-16 @ 5'	E412196-16A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-17 @ 5'	E412196-17A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-18 @ 5'	E412196-18A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-19 @ 5'	E412196-19A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
BES24-20 @ 5'	E412196-20A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-01 @ 1'

E412196-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.1 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.7 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*12/30/24*	*12/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	**100**	20.0	1	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-02 @ 1'

E412196-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.9 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.7 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*12/30/24*	*12/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	**86.5**	40.0	2	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-03 @ 1'

E412196-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.2 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.4 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*12/30/24*	*12/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	ND	100	5	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-04 @ 1'

E412196-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.3 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.1 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		*119 %*	*50-200*	*12/30/24*	*12/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	**82.3**	40.0	2	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-05 @ 1'

E412196-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.2 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.1 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*12/30/24*	*12/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	ND	100	5	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-06 @ 1'

E412196-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.6 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.5 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*12/30/24*	*12/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	ND	100	5	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-07 @ 1'

E412196-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.6 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.7 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*12/30/24*	*12/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	**139**	20.0	1	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-08 @ 1'

E412196-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.9 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.9 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*12/30/24*	*12/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	ND	100	5	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-09 @ 1'

E412196-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.8 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.9 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*124 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	**48.6**	40.0	2	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-10 @ 1'

E412196-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.5 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.5 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	ND	100	5	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-11 @ 1'

E412196-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.8 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.1 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*127 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	**113**	20.0	1	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-12 @ 1'

E412196-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.2 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.7 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	ND	100	5	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-13 @ 1'

E412196-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.0 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*122 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	ND	100	5	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-14 @ 3.5'

E412196-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.8 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.1 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*120 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	ND	100	5	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-15 @ 5'

E412196-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.1 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	ND	100	5	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-16 @ 5'

E412196-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.1 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*120 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	**99.1**	20.0	1	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-17 @ 5'

E412196-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.2 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.3 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*120 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	**98.6**	20.0	1	12/30/24	12/30/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-18 @ 5'

E412196-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.3 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*119 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	**108**	20.0	1	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-19 @ 5'

E412196-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.9 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	ND	100	5	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

BES24-20 @ 5'

E412196-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2453012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.6 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*129 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453013
Chloride	ND	100	5	12/30/24	12/31/24	

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2453012-BLK1)									Prepared: 12/30/24 Analyzed: 12/30/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.31*		*8.00*		*91.4*	*70-130*			
LCS (2453012-BS1)									Prepared: 12/30/24 Analyzed: 12/30/24
Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.06	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.51*		*8.00*		*93.9*	*70-130*			
LCS Dup (2453012-BSD1)									Prepared: 12/30/24 Analyzed: 12/30/24
Benzene	5.27	0.0250	5.00		105	70-130	1.17	20	
Ethylbenzene	5.14	0.0250	5.00		103	70-130	1.07	20	
Toluene	5.23	0.0250	5.00		105	70-130	1.17	20	
o-Xylene	5.12	0.0250	5.00		102	70-130	1.03	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	1.15	20	
Total Xylenes	15.6	0.0250	15.0		104	70-130	1.11	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.62*		*8.00*		*95.3*	*70-130*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2453012-BLK1)									Prepared: 12/30/24 Analyzed: 12/30/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.03*		*8.00*		*87.8*	*70-130*			
LCS (2453012-BS2)									Prepared: 12/30/24 Analyzed: 12/30/24
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0		94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.06*		*8.00*		*88.2*	*70-130*			
LCS Dup (2453012-BSD2)									Prepared: 12/30/24 Analyzed: 12/30/24
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0		94.6	70-130	0.128	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.15*		*8.00*		*89.4*	*70-130*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2453018-BLK1)									Prepared: 12/30/24 Analyzed: 12/30/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*60.6*		*50.0*		*121*	*50-200*			
LCS (2453018-BS1)									Prepared: 12/30/24 Analyzed: 12/30/24
Diesel Range Organics (C10-C28)	288	25.0	250		115	38-132			
Surrogate: n-Nonane	*55.3*		*50.0*		*111*	*50-200*			
Matrix Spike (2453018-MS1)				**Source: E412196-03**					Prepared: 12/30/24 Analyzed: 12/30/24
Diesel Range Organics (C10-C28)	296	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	*57.1*		*50.0*		*114*	*50-200*			
Matrix Spike Dup (2453018-MSD1)				**Source: E412196-03**					Prepared: 12/30/24 Analyzed: 12/30/24
Diesel Range Organics (C10-C28)	302	25.0	250	ND	121	38-132	2.12	20	
Surrogate: n-Nonane	*57.0*		*50.0*		*114*	*50-200*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:51:59PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2453013-BLK1)									Prepared: 12/30/24 Analyzed: 12/30/24
Chloride	ND	20.0							
LCS (2453013-BS1)									Prepared: 12/30/24 Analyzed: 12/30/24
Chloride	253	20.0	250		101	90-110			
LCS Dup (2453013-BSD1)									Prepared: 12/30/24 Analyzed: 12/30/24
Chloride	253	20.0	250		101	90-110	0.0874	20	

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

Definitions and Notes

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	01/02/25 13:51

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Released to Imaging: 4/3/2025 2:18:49 PM
Received by OCD: 3/14/2025 2:22:03 PM

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Vertex (Bill to Dalbo Holding)	Company: Dalbo Holdings Inc	Lab WO# E4112960	Job Number 24089-0001	1D 2D 3D Std: X
Project Name: DHI Lances to SRO line	Address: 355 South 1000 East			NM: X CO UT TX
Project Manager: Chad Hensley	City, State, Zip: Vernal, Utah, 84078			
Address:	Phone: 888-610-1001			
City, State, Zip:	Email: Tcrentz@Dalbo Holdings.com			
Phone:	Miscellaneous: PO # 8833			
Email: RPlogger@vertexresource.com cHensley@vertexresource.com				

Sample Information							Analysis and Method										EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			SDWA / CWA / RCRA		
8:10	12-23-24	Soil	1	BES24-01@1'		1	X	X	X		X						Compliance	Y	or N
8:13				02		2											PWSID #		
8:17				03		3											Remarks		
8:22				04		4													
8:28				05		5													
8:34				06		6													
8:39				07		7													
8:44				08		8													
8:49				09		9													
8:54	↓	↓	↓	10		10	↓	↓	↓		↓								

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: _____

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12.27.24	4:14		12-27-24	16:19
	12.28.24	1700		12.30.24	7:00

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Released to Imaging: 4/3/2025 2:18:49 PM
Received by OCD: 3/14/2025 2:22:03 PM

Client: Vertex (Bill to Dalbo Holdings)
Project: DHI Landes to SRO Line
Sampler: Riley Plogger
Phone:
Email(s):
Project Manager: Chad Hensley

RUSH? ☐ 1d ☐ 3d ☐ standard

Lab Use Only	
Lab WO#	PE412196
Job Number	24089-0001

Page 2 of 4

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number	Correct Cont/Prsrv (s) Y/N
BES24-11 @ 1'	12.23.24	8:59	Soil		X	X	X	X	11	
12 1'		9:10							12	
13 1'		9:16							13	
14 3.5'		9:22							14	
15 5'		9:42							15	
16 5'		9:47							16	
17 5'		9:55							17	
18 5'		10:03							18	
19 5'		10:07							19	
20 5'		10:15							20	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
R. M	12.27.24	4:20		12-27-24	16:20
	12-28-24	1700	Caitlin Mars	12.30.24	700

Lab Use Only
**Received on Ice Y / N
T1____ T2____ T3____
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: PO # 8833

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr (800) 362-1879
envirotech-inc.com laboratory@envirotech-inc.com

Envirotech Analytical Laboratory

Printed: 12/29/2024 12:55:24PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	12/30/24 07:00	Work Order ID:	E412196
Phone:	(575) 748-0176	Date Logged In:	12/29/24 11:18	Logged In By:	Caitlin Mars
Email:	chensley@vertexresources.com	Due Date:	01/06/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Sampled by not provided on COC. Project DHI Landes to SRO line has been seperated into 2 reports. WO are E412196 & E412197.

Client Instruction

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

Date

envirotech Inc.

Report to:

Chad Hensley

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name:	DHI Landes to SRO Line
Work Order:	E412197
Job Number:	24089-0001
Received:	12/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/2/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/2/25

Chad Hensley
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: DHI Landes to SRO Line
Workorder: E412197
Date Received: 12/30/2024 7:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/30/2024 7:00:00AM, under the Project Name: DHI Landes to SRO Line.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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Table of Contents

Title Page 1

Cover Page 2

Table of Contents 3

Sample Summary 5

Sample Data 6

- WES24-01 @ 0-1’ 6
- WES24-02 @ 0-1’ 7
- WES24-03 @ 0-1’ 8
- WES24-04 @ 0-1’ 9
- WES24-05 @ 0-1’ 10
- WES24-06 @ 0-1’ 11
- WES24-07 @ 0-1’ 12
- WES24-08 @ 0-1’ 13
- WES24-09 @ 0-3.5’ 14
- WES24-10 @ 0-3.5’ 15
- WES24-11 @ 0-5’ 16
- WES24-12 @ 0-5’ 17
- WES24-13 @ 0-5’ 18
- WES24-14 @ 0-5’ 19
- WES24-15 @ 0-5’ 20

QC Summary Data 21

- QC - Volatile Organics by EPA 8021B 21
- QC - Nonhalogenated Organics by EPA 8015D - GRO 22
- QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO 23
- QC - Anions by EPA 300.0/9056A 24

Table of Contents (continued)

Definitions and Notes 26

Chain of Custody etc. 27

Sample Summary

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	01/02/25 13:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WES24-01 @ 0-1'	E412197-01A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-02 @ 0-1'	E412197-02A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-03 @ 0-1'	E412197-03A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-04 @ 0-1'	E412197-04A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-05 @ 0-1'	E412197-05A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-06 @ 0-1'	E412197-06A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-07 @ 0-1'	E412197-07A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-08 @ 0-1'	E412197-08A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-09 @ 0-3.5'	E412197-09A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-10 @ 0-3.5'	E412197-10A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-11 @ 0-5'	E412197-11A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-12 @ 0-5'	E412197-12A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-13 @ 0-5'	E412197-13A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-14 @ 0-5'	E412197-14A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
WES24-15 @ 0-5'	E412197-15A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-01 @ 0-1'

E412197-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.5 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	**383**	20.0	1	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-02 @ 0-1'

E412197-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.9 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.9 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	ND	100	5	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-03 @ 0-1'

E412197-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	ND	100	5	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-04 @ 0-1'

E412197-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/31/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24	
Toluene	ND	0.0250	1	12/31/24	12/31/24	
o-Xylene	ND	0.0250	1	12/31/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/31/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.6 %*	*70-130*	*12/31/24*	*12/31/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.8 %*	*70-130*	*12/31/24*	*12/31/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*12/31/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453035
Chloride	ND	100	5	12/31/24	01/01/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-05 @ 0-1'

E412197-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.4 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.9 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	ND	100	5	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-06 @ 0-1'

E412197-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.5 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	**128**	20.0	1	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-07 @ 0-1'

E412197-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	**82.2**	20.0	1	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-08 @ 0-1'

E412197-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.3 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*119 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	**195**	20.0	1	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-09 @ 0-3.5'

E412197-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.1 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	ND	100	5	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-10 @ 0-3.5'

E412197-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.6 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	**92.8**	20.0	1	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-11 @ 0-5'

E412197-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/30/24	
Toluene	ND	0.0250	1	12/30/24	12/30/24	
o-Xylene	ND	0.0250	1	12/30/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.5 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.0 %*	*70-130*	*12/30/24*	*12/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	ND	100	5	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-12 @ 0-5'

E412197-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/31/24	
Toluene	ND	0.0250	1	12/30/24	12/31/24	
o-Xylene	ND	0.0250	1	12/30/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.7 %*	*70-130*	*12/30/24*	*12/31/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*12/30/24*	*12/31/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*120 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	ND	100	5	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-13 @ 0-5'

E412197-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/31/24	
Toluene	ND	0.0250	1	12/30/24	12/31/24	
o-Xylene	ND	0.0250	1	12/30/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.5 %*	*70-130*	*12/30/24*	*12/31/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.3 %*	*70-130*	*12/30/24*	*12/31/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	**79.1**	20.0	1	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-14 @ 0-5'

E412197-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/31/24	
Toluene	ND	0.0250	1	12/30/24	12/31/24	
o-Xylene	ND	0.0250	1	12/30/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.5 %*	*70-130*	*12/30/24*	*12/31/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.1 %*	*70-130*	*12/30/24*	*12/31/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	ND	100	5	12/30/24	12/31/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

WES24-15 @ 0-5'

E412197-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Benzene	ND	0.0250	1	12/30/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/30/24	12/31/24	
Toluene	ND	0.0250	1	12/30/24	12/31/24	
o-Xylene	ND	0.0250	1	12/30/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/30/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/30/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.1 %*	*70-130*	*12/30/24*	*12/31/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2453015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.1 %*	*70-130*	*12/30/24*	*12/31/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2453019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*12/30/24*	*12/31/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2453014
Chloride	ND	100	5	12/30/24	12/31/24	

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2453015-BLK1)									Prepared: 12/30/24 Analyzed: 12/30/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.44*		*8.00*		*93.0*	*70-130*			
LCS (2453015-BS1)									Prepared: 12/30/24 Analyzed: 12/30/24
Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.92	0.0250	5.00		98.5	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.91	0.0250	5.00		98.1	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	14.9	0.0250	15.0		99.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.36*		*8.00*		*92.0*	*70-130*			
LCS Dup (2453015-BSD1)									Prepared: 12/30/24 Analyzed: 12/30/24
Benzene	5.12	0.0250	5.00		102	70-130	0.857	20	
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130	0.925	20	
Toluene	5.06	0.0250	5.00		101	70-130	0.583	20	
o-Xylene	4.96	0.0250	5.00		99.2	70-130	1.09	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	0.970	20	
Total Xylenes	15.1	0.0250	15.0		100	70-130	1.01	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.38*		*8.00*		*92.3*	*70-130*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2453015-BLK1)									Prepared: 12/30/24 Analyzed: 12/30/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.54*		*8.00*		*94.2*	*70-130*			
LCS (2453015-BS2)									Prepared: 12/30/24 Analyzed: 12/30/24
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.63*		*8.00*		*95.4*	*70-130*			
LCS Dup (2453015-BSD2)									Prepared: 12/30/24 Analyzed: 12/30/24
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		90.0	70-130	5.86	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.63*		*8.00*		*95.4*	*70-130*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2453019-BLK1)									Prepared: 12/30/24 Analyzed: 12/31/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*54.9*		*50.0*		*110*	*50-200*			
LCS (2453019-BS1)									Prepared: 12/30/24 Analyzed: 12/31/24
Diesel Range Organics (C10-C28)	298	25.0	250		119	38-132			
Surrogate: n-Nonane	*58.2*		*50.0*		*116*	*50-200*			
Matrix Spike (2453019-MS1)				**Source: E412197-03**					Prepared: 12/30/24 Analyzed: 12/31/24
Diesel Range Organics (C10-C28)	302	25.0	250	ND	121	38-132			
Surrogate: n-Nonane	*58.8*		*50.0*		*118*	*50-200*			
Matrix Spike Dup (2453019-MSD1)				**Source: E412197-03**					Prepared: 12/30/24 Analyzed: 12/31/24
Diesel Range Organics (C10-C28)	304	25.0	250	ND	122	38-132	0.436	20	
Surrogate: n-Nonane	*58.7*		*50.0*		*117*	*50-200*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2453014-BLK1)									Prepared: 12/30/24 Analyzed: 12/31/24
Chloride	ND	20.0							
LCS (2453014-BS1)									Prepared: 12/30/24 Analyzed: 12/31/24
Chloride	257	20.0	250		103	90-110			
LCS Dup (2453014-BSD1)									Prepared: 12/30/24 Analyzed: 12/31/24
Chloride	257	20.0	250		103	90-110	0.00	20	

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/2/2025 1:56:12PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2453035-BLK1)									Prepared: 12/31/24 Analyzed: 12/31/24
Chloride	ND	20.0							
LCS (2453035-BS1)									Prepared: 12/31/24 Analyzed: 01/01/25
Chloride	257	20.0	250		103	90-110			
LCS Dup (2453035-BSD1)									Prepared: 12/31/24 Analyzed: 01/01/25
Chloride	258	20.0	250		103	90-110	0.0559	20	

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

Definitions and Notes

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	01/02/25 13:56

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Page 386 of 468

Client: vertex (Bill to Dalbo Holdings)
Project: DHI Landes to SRO Line
Sampler:
Phone:
Email(s):
Project Manager: Chad Hensley

RUSH? ☐ 1d ☐ 3d standard

Lab Use Only
Lab WO# PE412197
Job Number 24089-0001

Page 3 of 4

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number	Correct Cont/Prsrv (s) Y/N
WES24-01 @ 0-1'	12.23.24	10:42	soil		X	X	X	X	1	
02 0-1'		10:47							2	
03 0-1'		10:54							3	
04 0-1'		11:07							4	
05 0-1'		11:14							5	
06 0-1'		11:20							6	
07 0-1'		11:26							7	
08 0-1'		11:34							8	
09 0-3.5'		11:45							9	
10 0-3.5'		11:49							10	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12.27.24	4:20		4-27-24	16:20
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12-28-24	1700	Caitlin Mars	12.30.24	7:00

Lab Use Only
**Received on Ice Y / N
T1____ T2____ T3____
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop-off area.

Chain of Custody

Notes/Billing info: PO # 8833

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr (800) 362-1879
envirotech-inc.com laboratory@envirotech-inc.com

Page 27 of 29
Received by OCD: 3/14/2025 2:22:03 PM
Released to Imaging: 4/3/2025 2:18:49 PM

Released to Imaging: 4/3/2025 2:18:49 PM
Received by OCD: 3/14/2025 2:22:03 PM

Client: vertex (Bill to Dalbo Holdings)
Project: DHI Landes to SRO line
Sampler:
Phone:
Email(s):
Project Manager: Chad Hensley

RUSH? ☐ 1d ☐ 3d

Lab Use Only
Lab WO# PE412197
Job Number 24089-0001

Page 4 of 4

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0						lab Only: Lab Number	lab Only: Correct Cont/Prsrv (s) Y/N
WES24-11 @ 0-5'	12.23.24	12:10	soil		X	X	X	X						11	
12 0-5'		12:17												12	
13 0-5'		12:22												13	
14 0-5'		12:27												14	
15 0-5'		12:34												15	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12.27.24	4:20		12-27-24	16:20
	12-28-24	1700	Caitlin Mars	12-30-24	700

Lab Use Only
**Received on Ice (Y) / N
T1____ T2____ T3____
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other ____
Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: PO # 8833

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr (800) 362-1879
envirotech-inc.com laboratory@envirotech-inc.com

Envirotech Analytical Laboratory

Printed: 12/29/2024 12:56:32PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	12/30/24 07:00	Work Order ID:	E412197
Phone:	(575) 748-0176	Date Logged In:	12/29/24 11:23	Logged In By:	Caitlin Mars
Email:	chensley@vertexresources.com	Due Date:	01/06/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Sampled by not provided on COC. Project DHI Landes to SRO line has been seperated into 2 reports. WO are E412196 & E412197.

Client Instruction

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

Date

envirotech Inc.

Report to:

Chad Hensley

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name:	DHI Landes to SRO Line
Work Order:	E501084
Job Number:	24809-0001
Received:	1/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/17/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/17/25

Chad Hensley
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: DHI Landes to SRO Line
Workorder: E501084
Date Received: 1/15/2025 7:30:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/15/2025 7:30:00AM, under the Project Name: DHI Landes to SRO Line.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
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Table of Contents

Title Page 1

Cover Page 2

Table of Contents 3

Sample Summary 5

Sample Data 6

BES24-21 @ 5’ 6

BES24-22 @ 5’ 7

BES24-23 @ 5’ 8

BES24-24@ 5’ 9

BES24-25 @ 5’ 10

BES24-26 @ 5’ 11

BES24-27 @ 5’ 12

BES24-28 @ 5’ 13

BES24-29 @ 5’ 14

BES24-30 @ 4’ 15

BES24-31 @ 4’ 16

BES24-32 @ 4’ 17

BES24-33 @ 4’ 18

BES24-34 @ 4’ 19

BES24-35 @ 4’ 20

WES24-16 @ 0-5’ 21

WES24-17 @ 0-5’ 22

WES24-18 @ 0-5’ 23

WES24-19 @ 0-5’ 24

WES24-20 @ 0-5’ 25

Table of Contents (continued)

WES24-21 @ 0-5’ 26

WES24-22 @ 0-5’ 27

WES24-23 @ 0-5’ 28

WES24-24 @ 0-4’ 29

WES24-25 @ 0-4’ 30

WES24-26 @ 0-4’ 31

WES24-27 @0-4’ 32

QC Summary Data 33

QC - Volatile Organics by EPA 8021B 33

QC - Nonhalogenated Organics by EPA 8015D - GRO 35

QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO 37

QC - Anions by EPA 300.0/9056A 39

Definitions and Notes 41

Chain of Custody etc. 42

Sample Summary

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24809-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	01/17/25 09:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BES24-21 @ 5'	E501084-01A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-22 @ 5'	E501084-02A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-23 @ 5'	E501084-03A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-24@ 5'	E501084-04A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-25 @ 5'	E501084-05A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-26 @ 5'	E501084-06A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-27 @ 5'	E501084-07A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-28 @ 5'	E501084-08A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-29 @ 5'	E501084-09A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-30 @ 4'	E501084-10A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-31 @ 4'	E501084-11A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-32 @ 4'	E501084-12A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-33 @ 4'	E501084-13A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-34 @ 4'	E501084-14A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
BES24-35 @ 4'	E501084-15A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
WES24-16 @ 0-5'	E501084-16A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
WES24-17 @ 0-5'	E501084-17A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
WES24-18 @ 0-5'	E501084-18A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
WES24-19 @ 0-5'	E501084-19A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
WES24-20 @ 0-5'	E501084-20A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
WES24-21 @ 0-5'	E501084-21A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
WES24-22 @ 0-5'	E501084-22A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
WES24-23 @ 0-5'	E501084-23A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
WES24-24 @ 0-4'	E501084-24A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
WES24-25 @ 0-4'	E501084-25A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
WES24-26 @ 0-4'	E501084-26A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.
WES24-27 @0-4'	E501084-27A	Soil	01/09/25	01/15/25	Glass Jar, 2 oz.

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-21 @ 5'

E501084-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/15/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/15/25	
Toluene	ND	0.0250	1	01/15/25	01/15/25	
o-Xylene	ND	0.0250	1	01/15/25	01/15/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/15/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/15/25	
Surrogate: 4-Bromochlorobenzene-PID		*84.7 %*	*70-130*	*01/15/25*	*01/15/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/15/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*70-130*	*01/15/25*	*01/15/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*122 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	100	5	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-22 @ 5'

E501084-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/15/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/15/25	
Toluene	ND	0.0250	1	01/15/25	01/15/25	
o-Xylene	ND	0.0250	1	01/15/25	01/15/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/15/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/15/25	
Surrogate: 4-Bromochlorobenzene-PID		*85.2 %*	*70-130*	*01/15/25*	*01/15/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/15/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.1 %*	*70-130*	*01/15/25*	*01/15/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*121 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	**201**	20.0	1	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-23 @ 5'

E501084-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/15/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/15/25	
Toluene	ND	0.0250	1	01/15/25	01/15/25	
o-Xylene	ND	0.0250	1	01/15/25	01/15/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/15/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/15/25	
Surrogate: 4-Bromochlorobenzene-PID		*85.6 %*	*70-130*	*01/15/25*	*01/15/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/15/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*01/15/25*	*01/15/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*125 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	100	5	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-24@ 5'

E501084-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/15/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/15/25	
Toluene	ND	0.0250	1	01/15/25	01/15/25	
o-Xylene	ND	0.0250	1	01/15/25	01/15/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/15/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/15/25	
Surrogate: 4-Bromochlorobenzene-PID		*88.4 %*	*70-130*	*01/15/25*	*01/15/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/15/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*01/15/25*	*01/15/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*116 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	100	5	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-25 @ 5'

E501084-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*84.1 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*120 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	100	5	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-26 @ 5'

E501084-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*83.5 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*120 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	**99.4**	20.0	1	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-27 @ 5'

E501084-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*85.2 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	**222**	25.0	1	01/15/25	01/16/25	T17
Oil Range Organics (C28-C36)	**103**	50.0	1	01/15/25	01/16/25	T17
Surrogate: n-Nonane		*123 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	**370**	20.0	1	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-28 @ 5'

E501084-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*83.1 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*123 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	**45.6**	20.0	1	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-29 @ 5'

E501084-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*85.6 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.5 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*131 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	**113**	20.0	1	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-30 @ 4'

E501084-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*85.1 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*128 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	100	5	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-31 @ 4'

E501084-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*83.0 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.7 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*119 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	40.0	2	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-32 @ 4'

E501084-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*86.7 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*119 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	100	5	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-33 @ 4'

E501084-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*84.6 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*120 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	100	5	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-34 @ 4'

E501084-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*83.8 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*121 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	100	5	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

BES24-35 @ 4'

E501084-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*84.9 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.1 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*116 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	100	5	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

WES24-16 @ 0-5'

E501084-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*82.4 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*119 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	**65.2**	40.0	2	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

WES24-17 @ 0-5'

E501084-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*85.2 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.7 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*120 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	100	5	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

WES24-18 @ 0-5'

E501084-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*84.0 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.9 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*121 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	**110**	40.0	2	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

WES24-19 @ 0-5'

E501084-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*81.5 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.1 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*119 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	100	5	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

WES24-20 @ 0-5'

E501084-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*80.7 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503068
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*119 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2503059
Chloride	ND	100	5	01/15/25	01/16/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

WES24-21 @ 0-5'

E501084-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*85.1 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.2 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503056
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/15/25	
Surrogate: n-Nonane		*124 %*	*50-200*	*01/15/25*	*01/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2503058
Chloride	**118**	40.0	2	01/15/25	01/15/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

WES24-22 @ 0-5'

E501084-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*83.0 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.7 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503056
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/15/25	
Surrogate: n-Nonane		*121 %*	*50-200*	*01/15/25*	*01/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2503058
Chloride	ND	100	5	01/15/25	01/15/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

WES24-23 @ 0-5'

E501084-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*83.7 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.6 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503056
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*122 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2503058
Chloride	**406**	20.0	1	01/15/25	01/15/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

WES24-24 @ 0-4'

E501084-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*83.7 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.1 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503056
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*119 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2503058
Chloride	ND	100	5	01/15/25	01/15/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

WES24-25 @ 0-4'

E501084-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*82.4 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503056
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*121 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2503058
Chloride	**96.8**	20.0	1	01/15/25	01/15/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

WES24-26 @ 0-4'

E501084-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*84.3 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.4 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503056
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*122 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2503058
Chloride	ND	100	5	01/15/25	01/15/25	

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

WES24-27 @0-4'

E501084-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Benzene	ND	0.0250	1	01/15/25	01/16/25	
Ethylbenzene	ND	0.0250	1	01/15/25	01/16/25	
Toluene	ND	0.0250	1	01/15/25	01/16/25	
o-Xylene	ND	0.0250	1	01/15/25	01/16/25	
p,m-Xylene	ND	0.0500	1	01/15/25	01/16/25	
Total Xylenes	ND	0.0250	1	01/15/25	01/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*80.5 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2503054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/25	01/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.7 %*	*70-130*	*01/15/25*	*01/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2503056
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/25	01/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/25	01/16/25	
Surrogate: n-Nonane		*119 %*	*50-200*	*01/15/25*	*01/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2503058
Chloride	ND	100	5	01/15/25	01/15/25	

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24809-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2503054-BLK1)									Prepared: 01/15/25 Analyzed: 01/15/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*6.88*		*8.00*		*86.0*	*70-130*			
LCS (2503054-BS1)									Prepared: 01/15/25 Analyzed: 01/16/25
Benzene	4.82	0.0250	5.00		96.3	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.3	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.63	0.0250	5.00		92.7	70-130			
p,m-Xylene	9.51	0.0500	10.0		95.1	70-130			
Total Xylenes	14.1	0.0250	15.0		94.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*6.66*		*8.00*		*83.3*	*70-130*			
Matrix Spike (2503054-MS1)				**Source: E501083-03**					Prepared: 01/15/25 Analyzed: 01/15/25
Benzene	4.84	0.0250	5.00	ND	96.9	54-133			
Ethylbenzene	4.65	0.0250	5.00	ND	93.1	61-133			
Toluene	4.78	0.0250	5.00	ND	95.5	61-130			
o-Xylene	4.65	0.0250	5.00	ND	93.1	63-131			
p,m-Xylene	9.48	0.0500	10.0	ND	94.8	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	94.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*6.82*		*8.00*		*85.3*	*70-130*			
Matrix Spike Dup (2503054-MSD1)				**Source: E501083-03**					Prepared: 01/15/25 Analyzed: 01/15/25
Benzene	5.18	0.0250	5.00	ND	104	54-133	6.67	20	
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133	6.97	20	
Toluene	5.12	0.0250	5.00	ND	102	61-130	6.86	20	
o-Xylene	5.00	0.0250	5.00	ND	100	63-131	7.17	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	6.82	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	6.94	20	
Surrogate: 4-Bromochlorobenzene-PID	*6.72*		*8.00*		*84.0*	*70-130*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24809-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2503068-BLK1)									Prepared: 01/15/25 Analyzed: 01/15/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.25*		*8.00*		*90.7*	*70-130*			
LCS (2503068-BS1)									Prepared: 01/15/25 Analyzed: 01/15/25
Benzene	5.22	0.0250	5.00		104	70-130			
Ethylbenzene	5.07	0.0250	5.00		101	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.07	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.23*		*8.00*		*90.4*	*70-130*			
Matrix Spike (2503068-MS1)				**Source: E501084-04**					Prepared: 01/15/25 Analyzed: 01/15/25
Benzene	5.02	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.84	0.0250	5.00	ND	96.8	61-133			
Toluene	4.95	0.0250	5.00	ND	99.1	61-130			
o-Xylene	4.85	0.0250	5.00	ND	96.9	63-131			
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.07*		*8.00*		*88.3*	*70-130*			
Matrix Spike Dup (2503068-MSD1)				**Source: E501084-04**					Prepared: 01/15/25 Analyzed: 01/15/25
Benzene	5.32	0.0250	5.00	ND	106	54-133	5.86	20	
Ethylbenzene	5.17	0.0250	5.00	ND	103	61-133	6.54	20	
Toluene	5.26	0.0250	5.00	ND	105	61-130	6.09	20	
o-Xylene	5.17	0.0250	5.00	ND	103	63-131	6.36	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	6.49	20	
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131	6.45	20	
Surrogate: 4-Bromochlorobenzene-PID	*6.99*		*8.00*		*87.3*	*70-130*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24809-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2503054-BLK1)									Prepared: 01/15/25 Analyzed: 01/15/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.44*		*8.00*		*93.0*	*70-130*			
LCS (2503054-BS2)									Prepared: 01/15/25 Analyzed: 01/15/25
Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.66*		*8.00*		*95.8*	*70-130*			
Matrix Spike (2503054-MS2)				**Source: E501083-03**					Prepared: 01/15/25 Analyzed: 01/15/25
Gasoline Range Organics (C6-C10)	41.3	20.0	50.0	ND	82.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.71*		*8.00*		*96.4*	*70-130*			
Matrix Spike Dup (2503054-MSD2)				**Source: E501083-03**					Prepared: 01/15/25 Analyzed: 01/15/25
Gasoline Range Organics (C6-C10)	41.3	20.0	50.0	ND	82.7	70-130	0.214	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.69*		*8.00*		*96.1*	*70-130*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24809-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2503068-BLK1)									Prepared: 01/15/25 Analyzed: 01/15/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.49*		*8.00*		*93.6*	*70-130*			
LCS (2503068-BS2)									Prepared: 01/15/25 Analyzed: 01/16/25
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.70*		*8.00*		*96.2*	*70-130*			
Matrix Spike (2503068-MS2)				**Source: E501084-04**					Prepared: 01/15/25 Analyzed: 01/16/25
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.73*		*8.00*		*96.6*	*70-130*			
Matrix Spike Dup (2503068-MSD2)				**Source: E501084-04**					Prepared: 01/15/25 Analyzed: 01/16/25
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.5	70-130	3.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.58*		*8.00*		*94.8*	*70-130*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24809-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2503056-BLK1)									Prepared: 01/15/25 Analyzed: 01/15/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*58.1*		*50.0*		*116*	*50-200*			
LCS (2503056-BS1)									Prepared: 01/15/25 Analyzed: 01/15/25
Diesel Range Organics (C10-C28)	240	25.0	250		95.8	38-132			
Surrogate: n-Nonane	*54.8*		*50.0*		*110*	*50-200*			
Matrix Spike (2503056-MS1)				**Source: E501081-02**					Prepared: 01/15/25 Analyzed: 01/15/25
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	*60.2*		*50.0*		*120*	*50-200*			
Matrix Spike Dup (2503056-MSD1)				**Source: E501081-02**					Prepared: 01/15/25 Analyzed: 01/15/25
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132	2.98	20	
Surrogate: n-Nonane	*59.2*		*50.0*		*118*	*50-200*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24809-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2503065-BLK1)									Prepared: 01/15/25 Analyzed: 01/16/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*58.6*		*50.0*		*117*	*50-200*			
LCS (2503065-BS1)									Prepared: 01/15/25 Analyzed: 01/16/25
Diesel Range Organics (C10-C28)	248	25.0	250		99.2	38-132			
Surrogate: n-Nonane	*56.2*		*50.0*		*112*	*50-200*			
Matrix Spike (2503065-MS1)				**Source: E501084-10**					Prepared: 01/15/25 Analyzed: 01/16/25
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	*59.9*		*50.0*		*120*	*50-200*			
Matrix Spike Dup (2503065-MSD1)				**Source: E501084-10**					Prepared: 01/15/25 Analyzed: 01/16/25
Diesel Range Organics (C10-C28)	259	25.0	250	ND	103	38-132	1.31	20	
Surrogate: n-Nonane	*59.1*		*50.0*		*118*	*50-200*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24809-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2503058-BLK1)									Prepared: 01/15/25 Analyzed: 01/15/25
Chloride	ND	20.0							
LCS (2503058-BS1)									Prepared: 01/15/25 Analyzed: 01/15/25
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2503058-MS1)				**Source: E501082-08**					Prepared: 01/15/25 Analyzed: 01/15/25
Chloride	415	40.0	250	167	99.3	80-120			
Matrix Spike Dup (2503058-MSD1)				**Source: E501082-08**					Prepared: 01/15/25 Analyzed: 01/15/25
Chloride	410	40.0	250	167	97.4	80-120	1.17	20	

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24809-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/17/2025 9:53:07AM

Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2503059-BLK1)									Prepared: 01/15/25 Analyzed: 01/16/25
Chloride	ND	20.0							
LCS (2503059-BS1)									Prepared: 01/15/25 Analyzed: 01/16/25
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2503059-MS1)				**Source: E501084-09**					Prepared: 01/15/25 Analyzed: 01/16/25
Chloride	378	20.0	250	113	106	80-120			
Matrix Spike Dup (2503059-MSD1)				**Source: E501084-09**					Prepared: 01/15/25 Analyzed: 01/16/25
Chloride	365	20.0	250	113	101	80-120	3.50	20	

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

Definitions and Notes

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24809-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	01/17/25 09:53

T17	The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Released to Imaging: 4/7/2025 2:18:49 PM
Received by OCD: 3/14/2025 2:22:03 PM

Project Information | Chain of Custody | Page 1 of 3

Client:	Vertex (Bill to DHI)
Project:	DHI Landers to SRO Line
Project Manager:	Chad Hensley
Address:	3101 Boyd drive
City, State, Zip	Carlsbad, NM, 88220
Phone:	575-361-9639
Email:	RPrigger@vertexresource.com
Report due by:	

Bill To

Attention:	Dalloo Holdings Inc
Address:	355 S 1000 East
City, State, Zip	Vernal, Utah, 84078
Phone:	
Email:	Torentz@dallooholdings.com

Lab Use Only

Lab WO#	Job Number
E501084	24107.0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005- TX	Remarks
10:10	1-9-25	Soil	1	BES24-21@5'	1	X	X	X			X			
10:15				22@5'	2									
10:19				23@5'	3									
10:25				24@5'	4									
10:31				25@5'	5									
10:35				26@5'	6									
10:42				27@5'	7									
10:46				28@5'	8									
10:51				29@5'	9									
10:55	↓	↓	↓	30@4'	10	↓	↓	↓			↓			

Additional Instructions: PO#8833

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
R. M	1-13-25	12:10	Michelle Gonzales	1-13-25	1210
Michelle Gonzales	1-14-25	1530	[signature]	1.14.25	1630
[signature]	1.14.25	2330	Carlos Mon	1.15.25	730
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Released to Imaging: 4/3/2025 2:18:49 PM

Received by OCD: 3/14/2025 2:22:03 PM

Client: Vertex (Bill to DHI)
Project: DHI Landes to SRO Line
Project Manager: Chad Hensley
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention:
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# E501084
Job Number 24809.0001

TAT: 1D | 2D | 3D | Standard (X)

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005- TX	Remarks
10:59	1-9-25	Soil	1	BES24-31 @ 4'	11	X	X	X			X			
11:04				BES24-32 @ 4'	12									
11:10				BES24-33 @ 4'	13									
11:15				BES24-34 @ 4'	14									
11:22				BES24-35 @ 4'	15									
11:38				WES24-16 @ 0-5'	16									
11:44				WES24-17 @ 0-5'	17									
11:49				WES24-18 @ 0-5'	18									
11:57				WES24-19 @ 0-5'	19									
12:07				WES24-20 @ 0-5'	20									

Additional Instructions: PO# 8833

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	1-13-25	12:10	Michelle Gonzales	1-14-25	1210
Michelle Gonzales	1-14-25	1530	[signature]	1.14.25	1630
[signature]	1.14.25	2230	Cuatlin Man	1.16.25	730

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Released to Imaging: 4/3/2025 2:18:49 PM
Received by OCD: 3/14/2025 2:22:03 PM

Project Information | Chain of Custody | Page 3 of 3

Client:	Vertex (Bill to Dallas Holding)
Project:	DHI Landes to SRO Line
Project Manager:	Chad Hensley
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only

Lab WO#	Job Number
E501084	24089.0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005- TX	Remarks
12:15	1-9-25	Soil	1	WES24-21 @ 0-5	21	X	X	X			X			
12:22				22 @ 0-5	22									
12:30				23 @ 0-5	23									
12:37				24 @ 0-4'	24									
12:42				25 @ 0-4'	25									
12:47				26 @ 0-4'	26									
12:53				27 @ 0-4'	27									

Additional Instructions: PO # 8833

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	1-13-25	12:10	Michelle Gonzales	1-14-25	1210
Michelle Gonzales	1-14-25	1530	[signature]	1.14.25	1630
[signature]	1.14.25	2230	[signature]	1.15.25	930
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 1/15/2025 8:34:10AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	01/15/25 07:30	Work Order ID:	E501084
Phone:	(575) 748-0176	Date Logged In:	01/14/25 14:30	Logged In By:	Caitlin Mars
Email:	chensley@vertexresources.com	Due Date:	01/20/25 17:00 (3 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Sampled by not provided on COC.

Client Instruction

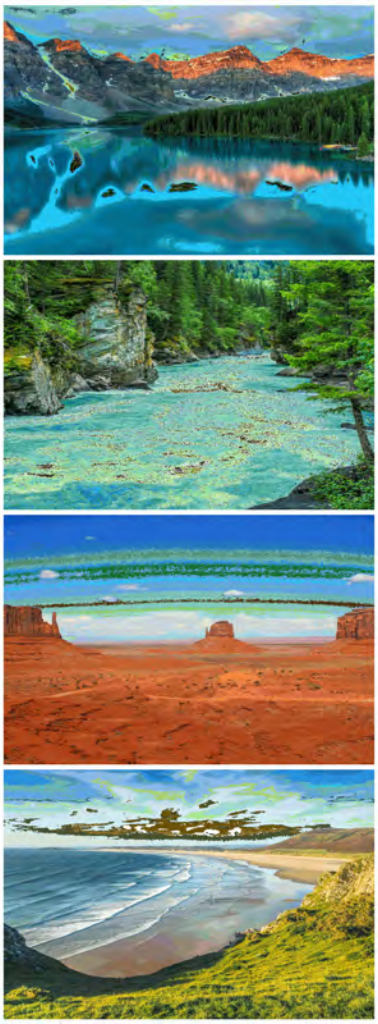
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Chad Hensley



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name:	DHI Landes to SRO Line
Work Order:	E501158
Job Number:	24089-0001
Received:	1/23/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/28/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/28/25

Chad Hensley
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: DHI Landes to SRO Line
Workorder: E501158
Date Received: 1/23/2025 8:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2025 8:00:00AM, under the Project Name: DHI Landes to SRO Line.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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ljarboe@envirotech-inc.com

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Client Representative
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mgonzales@envirotech-inc.com

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Table of Contents

Title Page 1

Cover Page 2

Table of Contents 3

Sample Summary 4

Sample Data 5

BES24-27 @ 6’ 5

QC Summary Data 6

QC - Volatile Organics by EPA 8021B 6

QC - Nonhalogenated Organics by EPA 8015D - GRO 7

QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO 8

QC - Anions by EPA 300.0/9056A 9

Definitions and Notes 10

Chain of Custody etc. 11

Sample Summary

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	01/28/25 10:21

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BES24-27 @ 6'	E501158-01A	Soil	01/22/25	01/23/25	Glass Jar, 2 oz.

Sample Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/28/2025 10:21:17AM

BES24-27 @ 6'

E501158-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2504100
Benzene	ND	0.0250	1	01/23/25	01/24/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/24/25	
Toluene	ND	0.0250	1	01/23/25	01/24/25	
o-Xylene	ND	0.0250	1	01/23/25	01/24/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/24/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/24/25	
Surrogate: 4-Bromochlorobenzene-PID		*86.4 %*	*70-130*	*01/23/25*	*01/24/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2504100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.7 %*	*70-130*	*01/23/25*	*01/24/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2504108
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/24/25	
Oil Range Organics (C28-C36)	**61.4**	50.0	1	01/23/25	01/24/25	
Surrogate: n-Nonane		*124 %*	*50-200*	*01/23/25*	*01/24/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2504115
Chloride	ND	40.0	2	01/24/25	01/24/25	

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/28/2025 10:21:17AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2504100-BLK1)									Prepared: 01/23/25 Analyzed: 01/25/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*6.80*		*8.00*		*85.0*	*70-130*			
LCS (2504100-BS1)									Prepared: 01/23/25 Analyzed: 01/25/25
Benzene	4.60	0.0250	5.00		91.9	70-130			
Ethylbenzene	4.42	0.0250	5.00		88.4	70-130			
Toluene	4.53	0.0250	5.00		90.6	70-130			
o-Xylene	4.41	0.0250	5.00		88.1	70-130			
p,m-Xylene	9.00	0.0500	10.0		90.0	70-130			
Total Xylenes	13.4	0.0250	15.0		89.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*6.74*		*8.00*		*84.2*	*70-130*			
LCS Dup (2504100-BSD1)									Prepared: 01/23/25 Analyzed: 01/25/25
Benzene	4.77	0.0250	5.00		95.3	70-130	3.65	20	
Ethylbenzene	4.58	0.0250	5.00		91.6	70-130	3.59	20	
Toluene	4.70	0.0250	5.00		94.0	70-130	3.67	20	
o-Xylene	4.56	0.0250	5.00		91.1	70-130	3.39	20	
p,m-Xylene	9.32	0.0500	10.0		93.2	70-130	3.48	20	
Total Xylenes	13.9	0.0250	15.0		92.5	70-130	3.45	20	
Surrogate: 4-Bromochlorobenzene-PID	*6.63*		*8.00*		*82.8*	*70-130*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/28/2025 10:21:17AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2504100-BLK1)									Prepared: 01/23/25 Analyzed: 01/25/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.82*		*8.00*		*97.7*	*70-130*			
LCS (2504100-BS2)									Prepared: 01/23/25 Analyzed: 01/25/25
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.93*		*8.00*		*99.1*	*70-130*			
LCS Dup (2504100-BSD2)									Prepared: 01/23/25 Analyzed: 01/26/25
Gasoline Range Organics (C6-C10)	41.3	20.0	50.0		82.5	70-130	5.66	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.84*		*8.00*		*97.9*	*70-130*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/28/2025 10:21:17AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2504108-BLK1)									Prepared: 01/23/25 Analyzed: 01/24/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*59.4*		*50.0*		*119*	*50-200*			
LCS (2504108-BS1)									Prepared: 01/23/25 Analyzed: 01/24/25
Diesel Range Organics (C10-C28)	280	25.0	250		112	38-132			
Surrogate: n-Nonane	*56.3*		*50.0*		*113*	*50-200*			
Matrix Spike (2504108-MS1)				**Source: E501159-04**					Prepared: 01/23/25 Analyzed: 01/24/25
Diesel Range Organics (C10-C28)	26500	125	250	20300	NR	38-132			M4, T9
Surrogate: n-Nonane	*126*		*50.0*		*253*	*50-200*			*S5*
Matrix Spike Dup (2504108-MSD1)				**Source: E501159-04**					Prepared: 01/23/25 Analyzed: 01/24/25
Diesel Range Organics (C10-C28)	26700	125	250	20300	NR	38-132	0.556	20	M4, T9
Surrogate: n-Nonane	*126*		*50.0*		*253*	*50-200*			*S5*

QC Summary Data

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	1/28/2025 10:21:17AM

Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2504115-BLK1)									Prepared: 01/24/25 Analyzed: 01/24/25
Chloride	ND	20.0							
LCS (2504115-BS1)									Prepared: 01/24/25 Analyzed: 01/24/25
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2504115-MS1)				**Source: E501154-05**					Prepared: 01/24/25 Analyzed: 01/24/25
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2504115-MSD1)				**Source: E501154-05**					Prepared: 01/24/25 Analyzed: 01/24/25
Chloride	252	20.0	250	ND	101	80-120	0.0623	20	

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

Definitions and Notes

Vertex Resource Services Inc.	Project Name:	DHI Landes to SRO Line	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	01/28/25 10:21

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
S5	Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
T9	DRO includes undifferentiated early eluting analytes characteristic of GRO.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Released to Imaging: 4/3/2025 2:18:49 PM
Received by OCD: 3/14/2025 2:22:03 PM

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Vertex (Bill to DHI)	Company: Dalbo Holdings Inc	Lab WO# E501158	Job Number 24089.0001	1D 2D 3D Std: X
Project Name: DHI Landes to SRO Line	Address: 355 S 1000 East			NM: ✓ CO UT TX
Project Manager: Chad Hensley	City, State, Zip: Vernal, Utah, 84078			
Address:	Phone:			
City, State, Zip:	Email: TGentz@Dalboholdings.com			
Phone: 575-361-9639	Miscellaneous:			
Email: RPlogger@vertexresource.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			Remarks
10:10	1-22-25	soil	1	BES24-27 @ 6'		1	X	X	X		X							

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance: Y or N

PWSID #

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: _____

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
R. Dr	1-22-25	11:00	Michelle Gonzales	1-22-25	1100
Michelle Gonzales	1.22.25	1520	Richard Gonzales	1-22-25	1520
Richard Gonzales	1-22-25	2130	Caitlin Mair	1.23.25	800
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 1/23/2025 9:11:45AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	01/23/25 08:00	Work Order ID:	E501158
Phone:	(575) 748-0176	Date Logged In:	01/22/25 14:46	Logged In By:	Caitlin Mars
Email:	chensley@vertexresources.com	Due Date:	01/29/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Sampled by not provided on COC.

Client Instruction

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

Date

envirotech Inc.

Client Name: Dalbo Holdings INC
Site Name: Landes to SRO Line- Fred Beard Pit
NMOCD Tracking #:nAPP24184439
Project #: 24E-03618
Lab Report(sX): 24089-0001

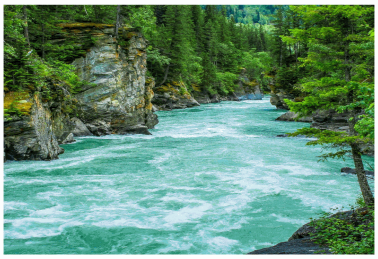
Table 3. Confirmatory Sample Laboratory Results

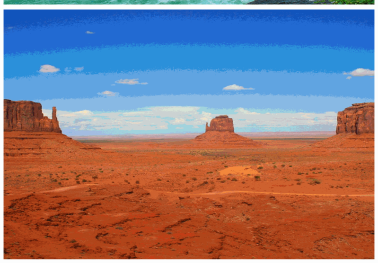
Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Depth to Groundwater <50							
Backfil Caliche	0	December 11, 2024	ND	ND	ND	ND	ND	ND	ND	171
Backfill Topsoil	0	December 11, 2024	ND	ND	ND	ND	ND	ND	ND	22.9

"ND" Not Detected at the Reporting Limit
"-" indicates not analyzed/assessed
Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)
Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)

Report to:

Chad Hensley





5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name:	Fred Beard Pit
Work Order:	E412110
Job Number:	24089-0001
Received:	12/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/20/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/20/24

Chad Hensley
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: Fred Beard Pit
Workorder: E412110
Date Received: 12/13/2024 8:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/13/2024 8:00:00AM, under the Project Name: Fred Beard Pit.

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

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

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

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

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Table of Contents

Title Page 1

Cover Page 2

Table of Contents 3

Sample Summary 4

Sample Data 5

- Backfill Caliche 5
- Backfill Topsoil 6

QC Summary Data 7

- QC - Volatile Organics by EPA 8021B 7
- QC - Nonhalogenated Organics by EPA 8015D - GRO 8
- QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO 9
- QC - Anions by EPA 300.0/9056A 10

Definitions and Notes 11

Chain of Custody etc. 12

Sample Summary

Vertex Resource Services Inc.	Project Name:	Fred Beard Pit	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/20/24 13:37

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Backfill Caliche	E412110-01A	Soil	12/11/24	12/13/24	Glass Jar, 4 oz.
Backfill Topsoil	E412110-02A	Soil	12/12/24	12/13/24	Glass Jar, 4 oz.

Sample Data

Vertex Resource Services Inc.	Project Name:	Fred Beard Pit	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/20/2024 1:37:05PM

Backfill Caliche

E412110-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2450133
Benzene	ND	0.0250	1	12/13/24	12/15/24	
Ethylbenzene	ND	0.0250	1	12/13/24	12/15/24	
Toluene	ND	0.0250	1	12/13/24	12/15/24	
o-Xylene	ND	0.0250	1	12/13/24	12/15/24	
p,m-Xylene	ND	0.0500	1	12/13/24	12/15/24	
Total Xylenes	ND	0.0250	1	12/13/24	12/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.5 %*	*70-130*	*12/13/24*	*12/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2450133
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/13/24	12/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*12/13/24*	*12/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2450123
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/24	12/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/24	12/14/24	
Surrogate: n-Nonane		*124 %*	*50-200*	*12/13/24*	*12/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2450131
Chloride	**171**	20.0	1	12/13/24	12/14/24	

Sample Data

Vertex Resource Services Inc.	Project Name:	Fred Beard Pit	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/20/2024 1:37:05PM

Backfill Topsoil

E412110-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2450133
Benzene	ND	0.0250	1	12/13/24	12/16/24	
Ethylbenzene	ND	0.0250	1	12/13/24	12/16/24	
Toluene	ND	0.0250	1	12/13/24	12/16/24	
o-Xylene	ND	0.0250	1	12/13/24	12/16/24	
p,m-Xylene	ND	0.0500	1	12/13/24	12/16/24	
Total Xylenes	ND	0.0250	1	12/13/24	12/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.9 %*	*70-130*	*12/13/24*	*12/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2450133
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/13/24	12/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*12/13/24*	*12/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2450123
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/24	12/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/24	12/14/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*12/13/24*	*12/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2450131
Chloride	**22.9**	20.0	1	12/13/24	12/14/24	

QC Summary Data

Vertex Resource Services Inc.	Project Name:	Fred Beard Pit	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/20/2024 1:37:05PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2450133-BLK1)									Prepared: 12/13/24 Analyzed: 12/15/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.59*		*8.00*		*94.8*	*70-130*			
LCS (2450133-BS1)									Prepared: 12/13/24 Analyzed: 12/15/24
Benzene	5.63	0.0250	5.00		113	70-130			
Ethylbenzene	5.45	0.0250	5.00		109	70-130			
Toluene	5.55	0.0250	5.00		111	70-130			
o-Xylene	5.44	0.0250	5.00		109	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.5	0.0250	15.0		110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.66*		*8.00*		*95.8*	*70-130*			
LCS Dup (2450133-BSD1)									Prepared: 12/13/24 Analyzed: 12/18/24
Benzene	5.50	0.0250	5.00		110	70-130	2.41	20	
Ethylbenzene	5.32	0.0250	5.00		106	70-130	2.38	20	
Toluene	5.43	0.0250	5.00		109	70-130	2.20	20	
o-Xylene	5.34	0.0250	5.00		107	70-130	1.99	20	
p,m-Xylene	10.8	0.0500	10.0		108	70-130	2.73	20	
Total Xylenes	16.1	0.0250	15.0		107	70-130	2.48	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.62*		*8.00*		*95.2*	*70-130*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	Fred Beard Pit	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/20/2024 1:37:05PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2450133-BLK1)									Prepared: 12/13/24 Analyzed: 12/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.33*		*8.00*		*91.6*	*70-130*			
LCS (2450133-BS2)									Prepared: 12/13/24 Analyzed: 12/15/24
Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.48*		*8.00*		*93.5*	*70-130*			
LCS Dup (2450133-BSD2)									Prepared: 12/13/24 Analyzed: 12/15/24
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130	8.04	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.41*		*8.00*		*92.6*	*70-130*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	Fred Beard Pit	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/20/2024 1:37:05PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2450123-BLK1)									Prepared: 12/13/24 Analyzed: 12/14/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*59.0*		*50.0*		*118*	*50-200*			
LCS (2450123-BS1)									Prepared: 12/13/24 Analyzed: 12/14/24
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	*55.9*		*50.0*		*112*	*50-200*			
Matrix Spike (2450123-MS1)				**Source: E412100-03**					Prepared: 12/13/24 Analyzed: 12/14/24
Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132			
Surrogate: n-Nonane	*60.1*		*50.0*		*120*	*50-200*			
Matrix Spike Dup (2450123-MSD1)				**Source: E412100-03**					Prepared: 12/13/24 Analyzed: 12/14/24
Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	38-132	1.80	20	
Surrogate: n-Nonane	*57.6*		*50.0*		*115*	*50-200*			

QC Summary Data

Vertex Resource Services Inc.	Project Name:	Fred Beard Pit	**Reported:**
3101 Boyd Drive	Project Number:	24089-0001	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/20/2024 1:37:05PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2450131-BLK1)									Prepared: 12/13/24 Analyzed: 12/13/24
Chloride	ND	20.0							
LCS (2450131-BS1)									Prepared: 12/13/24 Analyzed: 12/13/24
Chloride	257	20.0	250		103	90-110			
LCS Dup (2450131-BSD1)									Prepared: 12/13/24 Analyzed: 12/14/24
Chloride	257	20.0	250		103	90-110	0.316	20	

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

Definitions and Notes

Vertex Resource Services Inc.	Project Name:	Fred Beard Pit	
3101 Boyd Drive	Project Number:	24089-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/20/24 13:37

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Released to Imaging: 4/3/2025 2:18:49 PM
Received by OCD: 3/14/2025 2:22:03 PM

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Vertex (Bill to DHI)	Company: DHI	Lab WO# E412110	1D 2D 3D Std	NM CO UT TX
Project Name: Fred Beard Pit	Address: 355 South 1000 East	Job Number 24089-0001		NM
Project Manager: Chad Hensley	City, State, Zip: Vernal, Utah, 84078		X	
Address:	Phone: 888-610-1001			
City, State, Zip:	Email:			
Phone:	Miscellaneous:			
Email: CHensley@vertexresource.com; RProgers@vertexresource.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks
3:00	12-11-24	Soil	1	Backfill caliche		1	X	X	X		X							
3:15	12-11-24	Soil	1	Backfill Topsoil		2	X	X	X		X							

Analysis and Method

EPA Program

SDWA	CWA	RCRA

Compliance Y or N

PWSID #

Additional Instructions: PO# 8833

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: _____

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
R. Hill	12.11.24	1700	Michelle Gonzales	12-11-24	1700
Michelle Gonzales	12-12-24	1615	[illegible]	12.12.24	1613
[illegible]	12.12.24	2245	Caitlin Mars	12.13.24	800
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6C on subsequent days.

Lab Use Only

Received on ice: (Y) N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 12/13/2024 10:41:09AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	12/13/24 08:00	Work Order ID:	E412110
Phone:	(575) 748-0176	Date Logged In:	12/13/24 10:26	Logged In By:	Noe Soto
Email:	chensley@vertexresources.com	Due Date:	12/19/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Sampled by nme is missing on COC by client.

Client Instruction

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

Date

envirotech Inc.

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Phone: (505) 476-3441

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

QUESTIONS

Action 442687

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 442687
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2418443905**
Incident Name	**NAPP2418443905 DHI LANDES TO SRO LINE @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Reclamation Report Received**

Location of Release Source *Please answer all the questions in this group.*	
Site Name	DHI Landes to SRO Line
Date Release Discovered	07/01/2024
Surface Owner	State

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: Equipment Failure | Pipeline (Any) | Produced Water | Released: 100 BBL | Recovered: 0 BBL | Lost: 100 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 442687
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

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

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

I hereby agree and sign off to the above statement	Name: Rob Kirk Title: VP- Environmental Compliance Email: rob.kirk@ariswater.com Date: 07/16/2024

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QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 442687
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (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 ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission		Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated		Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 Cl B)	5700
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence		01/01/2025
On what date will (or did) the final sampling or liner inspection occur		03/01/2025
On what date will (or was) the remediation complete(d)		03/01/2025
What is the estimated surface area (in square feet) that will be reclaimed		43200
What is the estimated volume (in cubic yards) that will be reclaimed		1600
What is the estimated surface area (in square feet) that will be remediated		43200
What is the estimated volume (in cubic yards) that will be remediated		1600
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 442687
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	LEA LAND LANDFILL [fEEM0112342028]
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	Name: Julian Romero Title: Environmental Advisor Email: julian.romero@ariswater.com Date: 11/22/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 442687
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 442687
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**422535**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/22/2025**
What was the (estimated) number of samples that were to be gathered	**1**
What was the sampling surface area in square feet	**200**

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4142
What was the total volume (cubic yards) remediated	622
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	4142
What was the total volume (in cubic yards) reclaimed	622
Summarize any additional remediation activities not included by answers (above)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Lauren Bean Title: Senior Engineering Tech Email: lauren.bean@ariswater.com Date: 03/14/2025

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QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 442687
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	4142
What was the total volume of replacement material (in cubic yards) for this site	622
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	02/27/2025
Summarize any additional reclamation activities not included by answers (above)	N/A
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Lauren Bean Title: Senior Engineering Tech Email: lauren.bean@ariswater.com Date: 03/14/2025

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 (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 442687
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 442687
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Reclamation Closure is approved. All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	4/3/2025