

Environmental Site Remediation Work Plan

General Information

NMOCD District:	Artesia	Incident ID:	nAPP2418443905
Landowner:	State	RP Reference:	N/A
Client:	Dalbo Holding Inc	Site Location:	Landes to SRO Line
Date:	September 27 2024	Project #:	24E-03618
Client Contact:	Travis Gentz	Phone #:	432-770-9745
Vertex PM:	Chad Hensley	Phone #:	575-200-6167

Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address these areas. Areas of environmental concern identified and delineated include the right-of-way and adjacent pasture. Closure criteria has been selected as per New Mexico Administrative Code (NMAC) 19.15.29. All applicable research as it pertains to closure criteria selection is presented in Attachment 1. The closure criteria for the site are presented below.

Table 1. Closure Criteria for Soils Impacted by a Release DTGW <50 feet bgs		
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 organics  
BTEX- benzene, toluene, ethylbenzene, and xylenes

Site Assessment/Characterization

DHI retained Vertex Professional Services Ltd. (Vertex) to conduct an electromagnetic (EM) survey at the DHI Landes to SRO Line (hereafter referred to as the “site”). The site is located approximately 10 miles southwest of Malaga, New Mexico. Vertex personnel conducted the EM survey between July 24 and 27, 2024. Site characterization sampling began on August 9 ,2024 and was completed on August 28, 2024. A total of 37 sample points were established, and 128 samples collected for field screening. Samples at the deepest vertical distance below closure criteria were submitted to the laboratory for analysis. In total, 128 samples were submitted to Eurofins Laboratory in Albuquerque, New Mexico, for analysis. The sample locations are presented in Figure 1 (Attachment 2). Laboratory analysis results have been compared to the above-noted closure criteria and the results from the characterization activity are presented in Attachment 3. Laboratory data reports are presented in Attachment 3. Exceedances are identified in the table as bold with a green background

Remedial Activities

General

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. Soil will be excavated to the extents of the known contamination or in 1-foot increments, whichever is

**Environmental Site Remediation Work Plan**

less. Field screening will be utilized to confirm removal of contaminated soil below the applicable closure criteria. Contaminated soils will be stored on a 30mil liner prior to disposal at an approved facility. Once excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

**nAPP2418443905 – Right-of-Way**

A total of 37 sample points were established, and 128 samples were collected for analysis along the pipeline right-of-way and adjacent pasture. Exceedances to closure criteria were found at sample points BH24-07, BH24-11, BH24-19, BH24-20, BH24-21, BH24-22, BH24-23, and BH24-37. Soil will be excavated at a planned depth of 4 feet around sample points BH24-20, BH24-21, BH24-37. The excavation is also planned to extend to a depth of 5 feet at sample points BH24-07, BH24-11, AND BH24-19 and 2 feet at sample points BH24-22 and BH24-23. A hydro vac truck will be utilized to remove contaminated soil in close proximity to the pipeline. Heavy equipment will be used to complete excavation outside of the containment. Field screening will be utilized to find the horizontal and vertical extents of the spill area. Confirmatory samples will be collected as per New Mexico Oil Conservation Division guidance and submitted for laboratory analysis of all applicable parameters. The estimated volume to be excavated is 60 cubic yards.

Sample Point	Excavation Depth	Remediation Method
BH24-07	5'	Excavator
BH24-11	5'	Excavator
BH24-19	5'	Excavator
BH24-20	4'	Excavator
BH24-21	4'	Excavator
BH24-22	2-3'	Excavator
BH24-23	2-3'	Excavator
BH24-37	4'	Excavator

Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575-200-6167 or [Chensley@vertexresource.com](mailto:Chensley@vertexresource.com)

Environmental Site Remediation Work Plan



Riley Plogger

10.9.24

Riley Plogger, B.Sc.

Date

ENVIRONMENTAL TECHNICIAN, REPORTING

Chad Hesley

10.9.24

Chad Hesley B.Sc. GCNR.

Date

SENIOR PROJECT MANAGER, REPORT REVIEW



## Environmental Site Remediation Work Plan

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### Attachments

Attachment 1: Closure Criteria Research

Attachment 2: Sample Locations - Remediation Plan Figure 1

Attachment 3: Daily Field Report

Attachment 4: Laboratory Results Table and Laboratory Analysis

Attachment 5: EM Survey Report

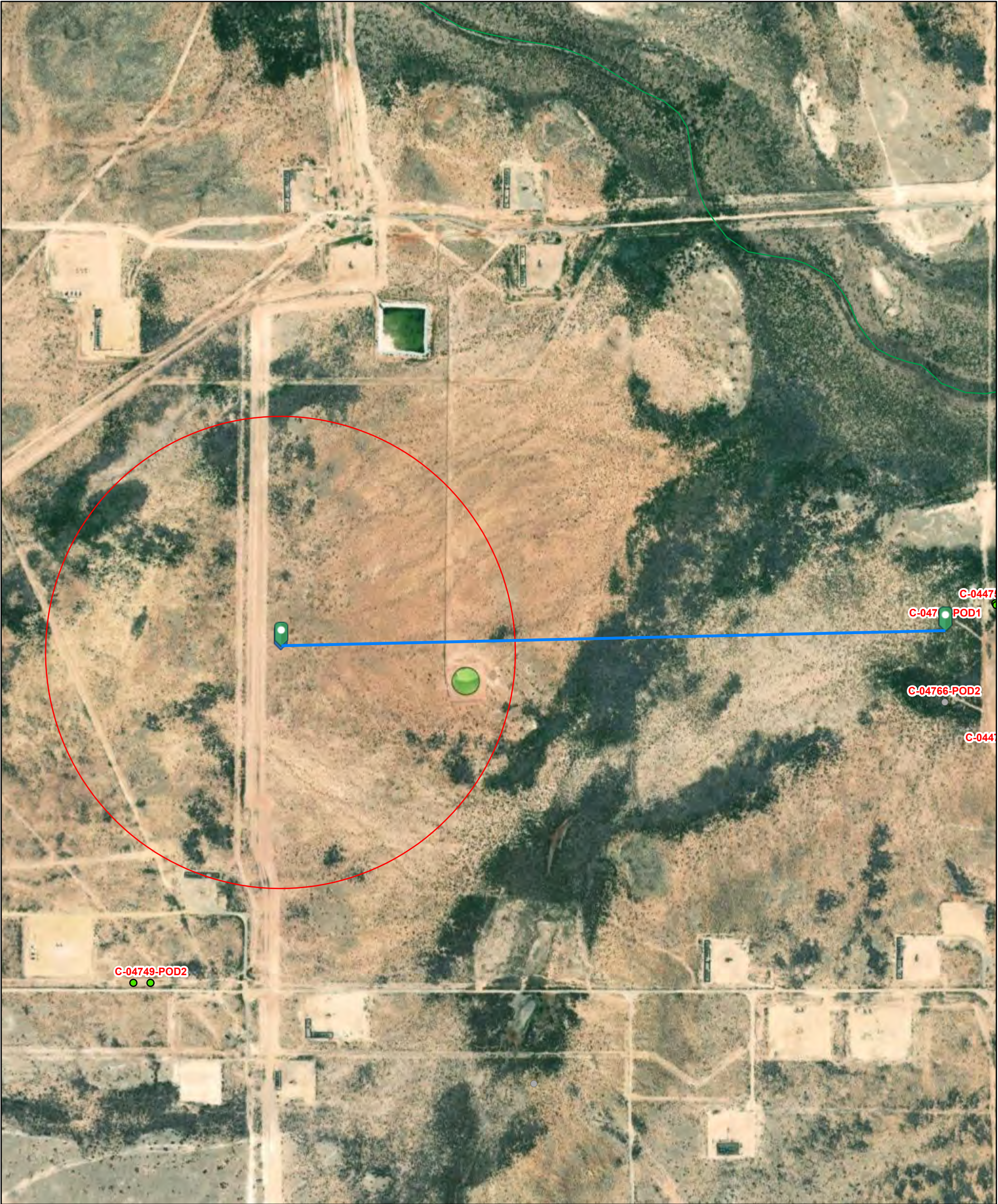


**ATTACHMENT 1**  
**Closure Criteria Research**

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 Permian 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

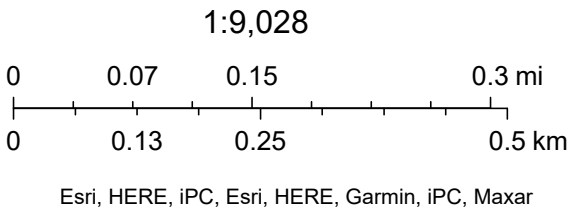
● GIS WATERS PODs

● Active

● Pending
- OSE District Boundary

NHD Flowlines

— Stream River





# 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 feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth
<a href="#">C 02478</a>		CUB	ED		NE	NW	05	26S	28E	583848.0	3549325.0 *		1066	100
<a href="#">C 04766 POD1</a>		CUB	ED	NE	NE	SE	32	25S	28E	584716.5	3550306.9		1417	37
<a href="#">C 03836 POD1</a>		C	ED	NE	NE	SE	29	25S	28E	584682.5	3551934.1		2185	300
<a href="#">C 01278</a>		C	ED		SE	SW	28	25S	28E	585470.0	3551338.0 *		2431	205
<a href="#">C 03938 POD1</a>		CUB	ED	NE	NE	NE	25	25S	27E	581481.8	3552616.2		2992	21
<a href="#">C 01573 POD1</a>		C	ED	SW	NW	SE	20	25S	28E	584143.9	3553361.5		3233	176
<a href="#">C 02477</a>		CUB	ED		NW	NW	03	26S	28E	586687.0	3549347.0 *		3502	150
<a href="#">C 04371 POD1</a>		CUB	ED	SW	SW	SE	26	25S	27E	579368.8	3551272.6		4065	100
<a href="#">C 03861 POD1</a>		C	ED	SE	NE	SW	18	25S	28E	582265.7	3554864.3		4738	91
<a href="#">C 02474</a>		CUB	ED		SE	SW	02	26S	27E	578964.0	3548029.0 *		4868	100

Average

Minimum

Maximum



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.



# 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
<a href="#">.get images</a>	<a href="#">750172</a>	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
<a href="#">C 04766 POD1</a>	NA	Shallow	NE	NE	SE	32	25S	28E	584716.5	3550306.9		MW-4
<a href="#">C 04766 POD2</a>	NA		NE	NE	SE	32	25S	28E	584716.1	3550140.9		MW-5
<a href="#">C 04766 POD3</a>	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	

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.



## Landes to SRO Line Watercourse 4,561ft



September 28, 2024

**Wetlands**

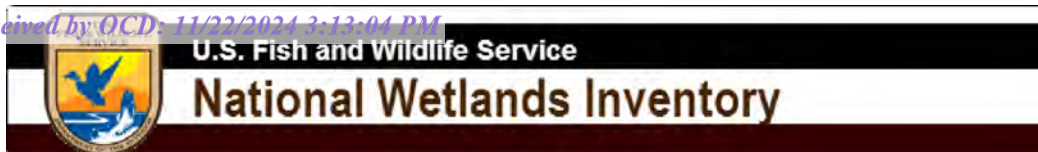
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

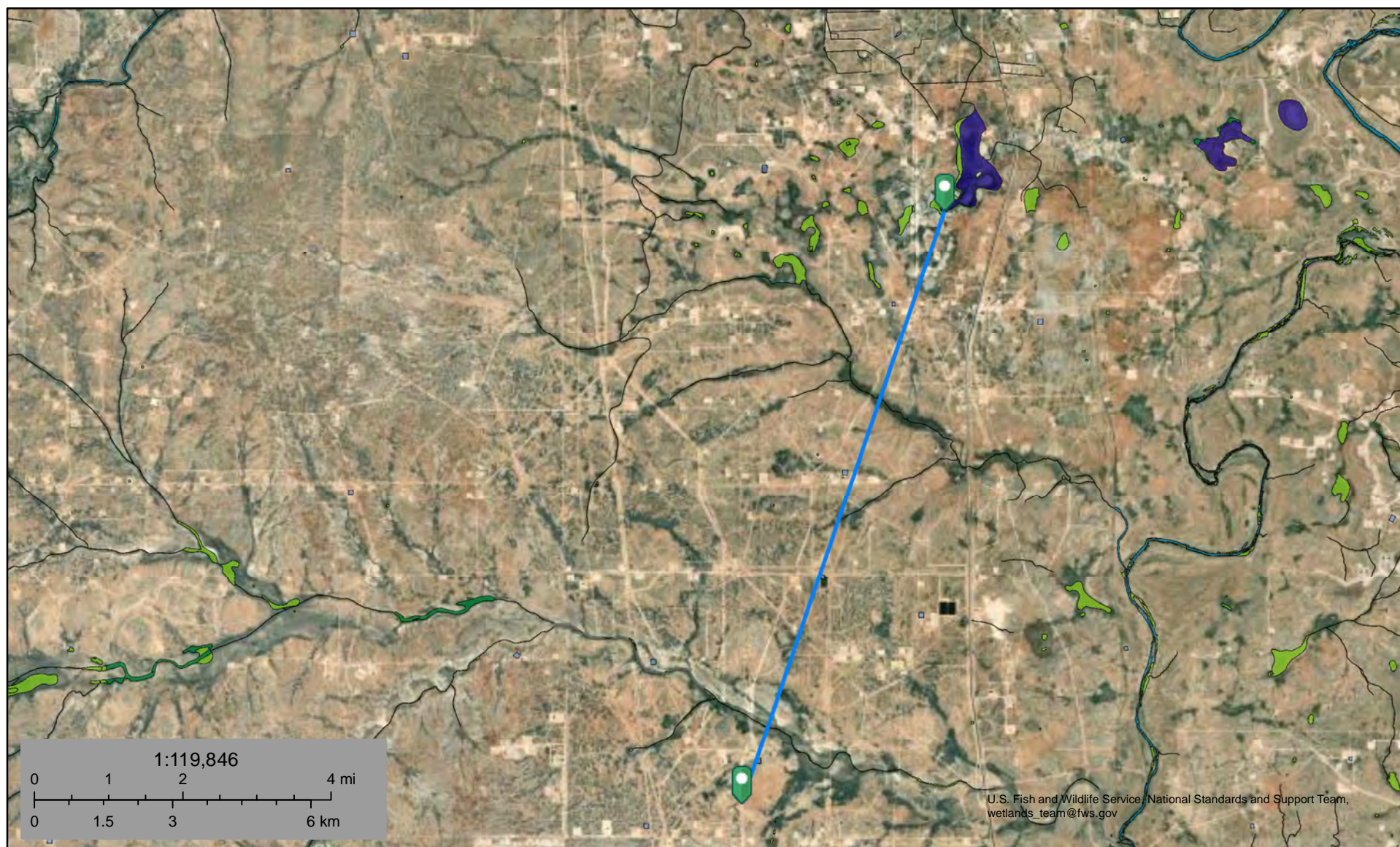
- Lake
- Other
- Riverine

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.





## 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

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.








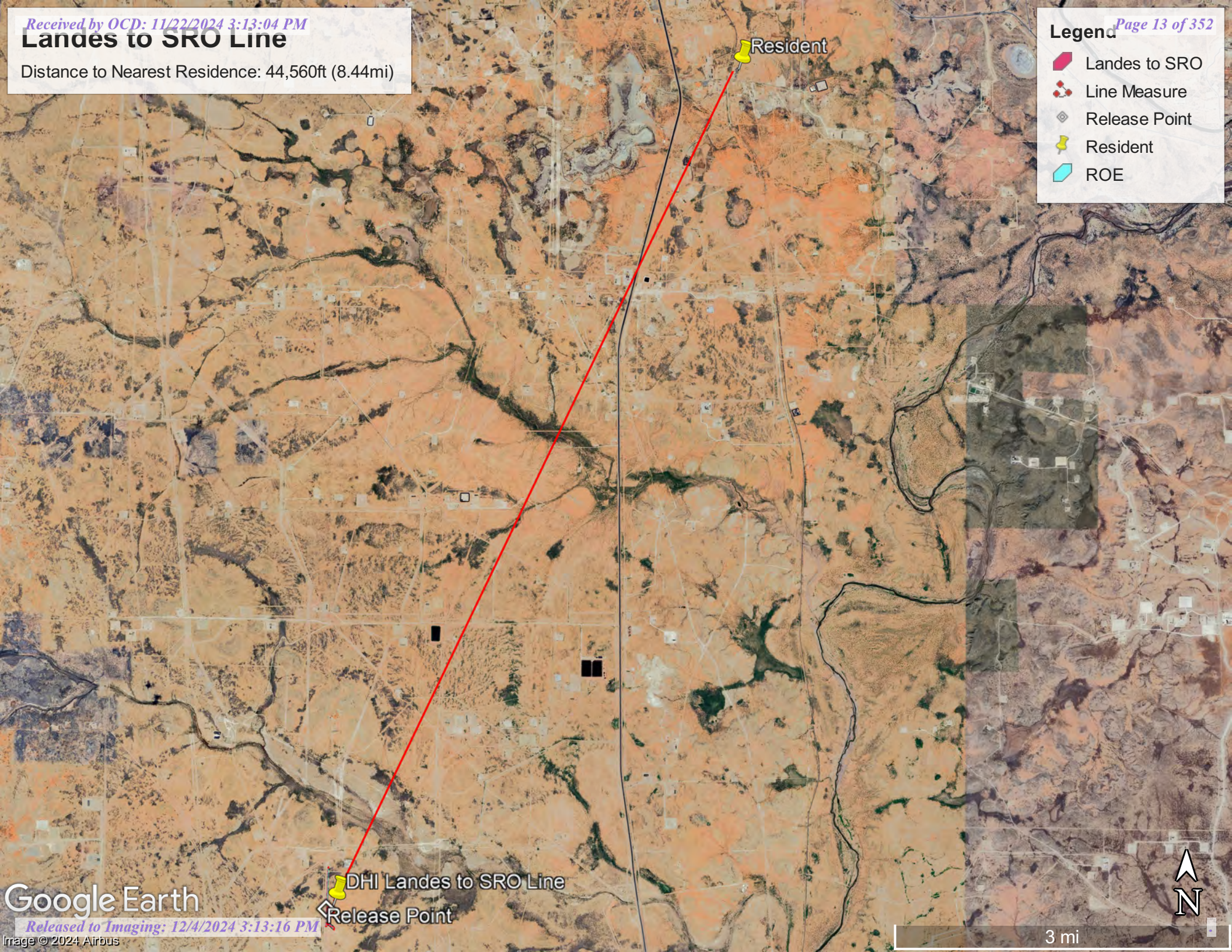
# Landes to SRO Line

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

Page 13 of 352

Legend

-  Landes to SRO
-  Line Measure
-  Release Point
-  Resident
-  ROE





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
<a href="#">C 04749</a>	CUB	MON	0.000	CONOCO PHILLIPS TETRA TECH	ED	<a href="#">C 04749 POD2</a>	NA			
					ED	<a href="#">C 04749 POD1</a>	NA			
<a href="#">C 02478</a>	CUB	PLS	3.000	MARTHA SKEEN	ED	<a href="#">C 02478</a>				
<a href="#">C 04766</a>	CUB	MON	0.000	CONOCO PHILLIPS	ED	<a href="#">C 04766 POD1</a>	NA			Shallow
					ED	<a href="#">C 04766 POD2</a>	NA			
<a href="#">C 04475</a>	CUB	MON	0.000	COG OPERATING LLC	ED	<a href="#">C 04475 POD1</a>	NA			
					ED	<a href="#">C 04475 POD2</a>	NA			
					ED	<a href="#">C 04475 POD3</a>	NA			
					ED	<a href="#">C 04475 POD4</a>	NA			



Record Count: 9

Filters Applied:

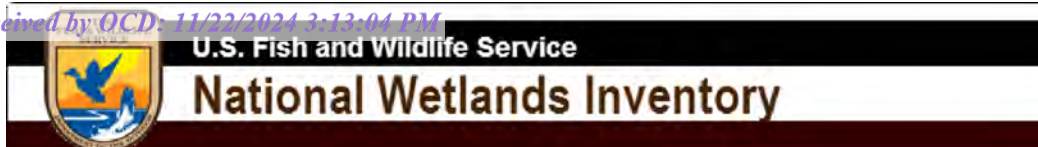
UTM Filters (in meters):

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Northing: 3550240.35  
Radius: 1610

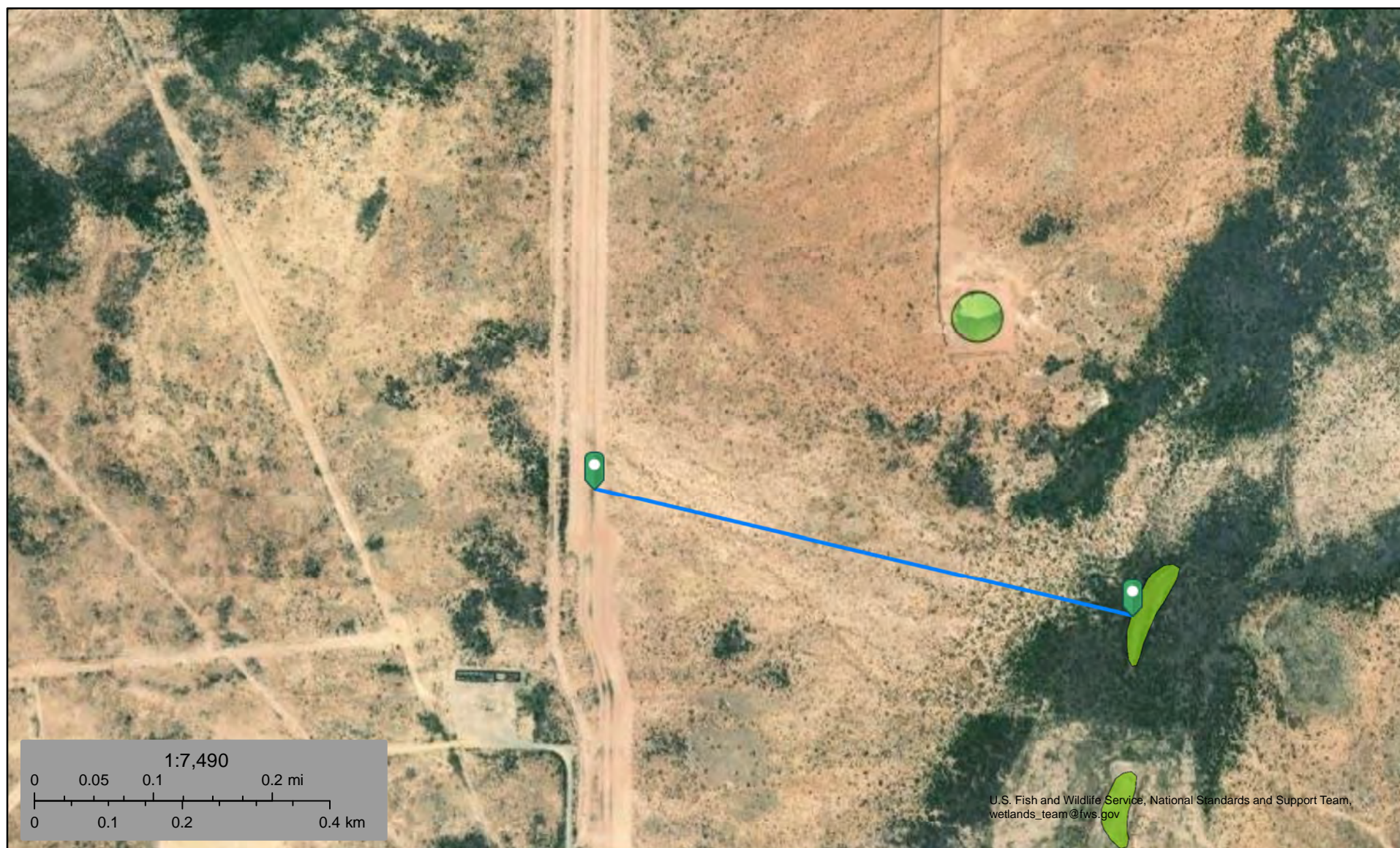
Sorted By: Distance

\* UTM location was derived from PLSS - see Help

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## Landes to SRO Line Wetland 2,038ft



September 28, 2024

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

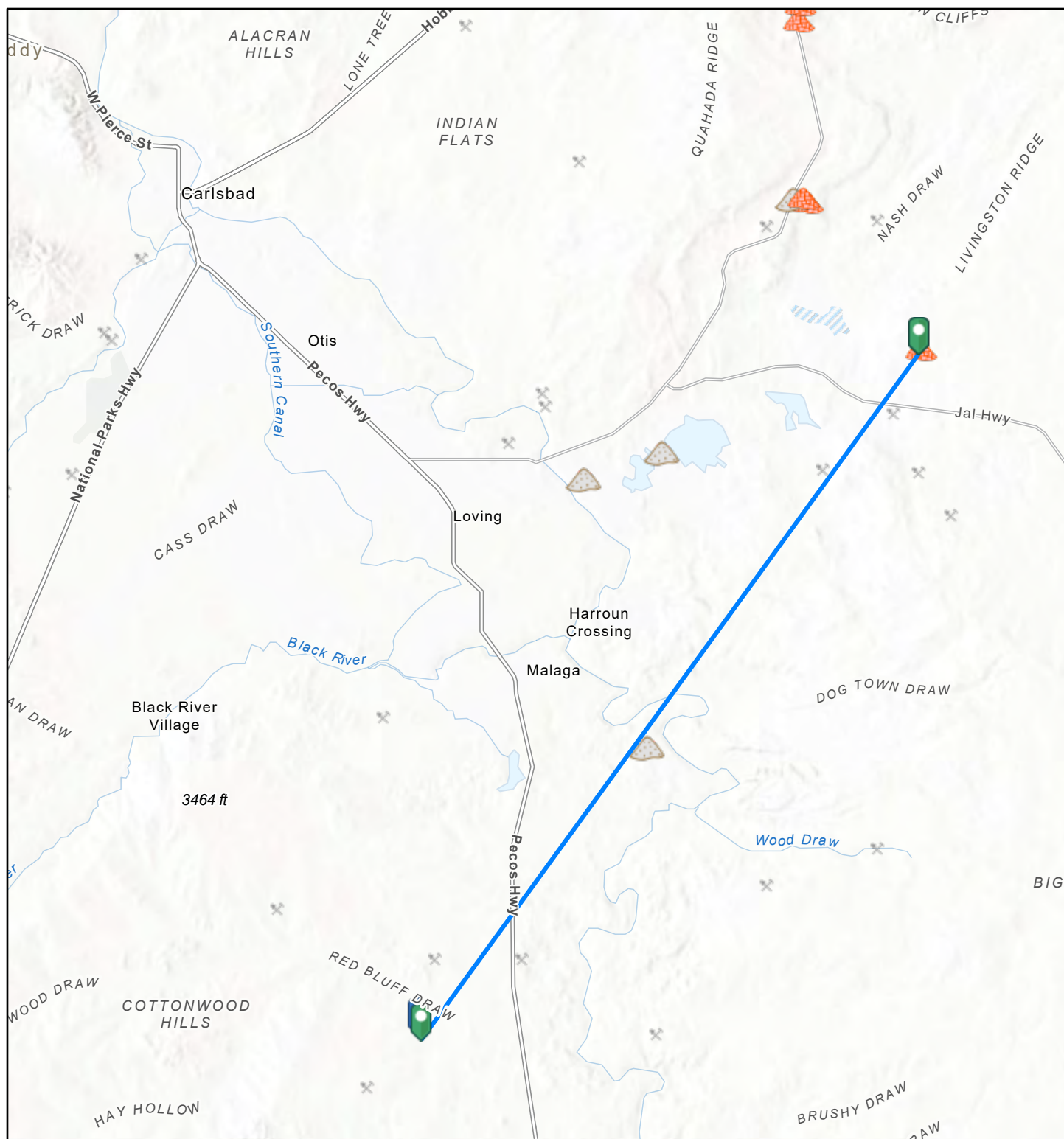
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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## Landes to SRO Line Mine 121,720ft



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

1:288,895

## Registered Mines



Aggregate, Stone etc.



Aggregate, Stone etc.



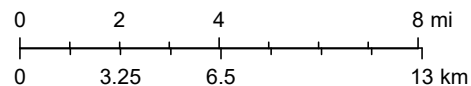
Potash



Aggregate, Stone etc.



Salt









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

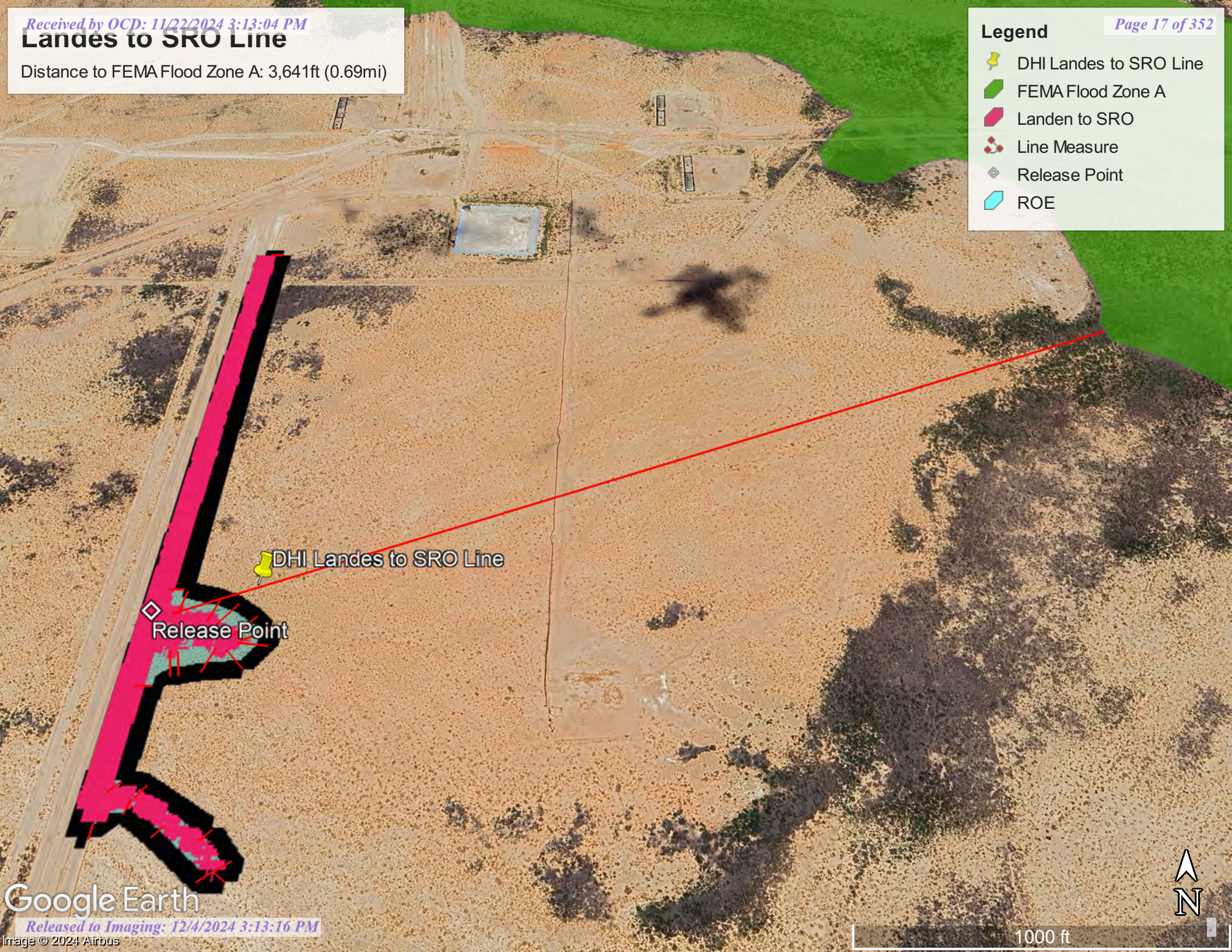


# Landes to SRO Line

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

## Legend

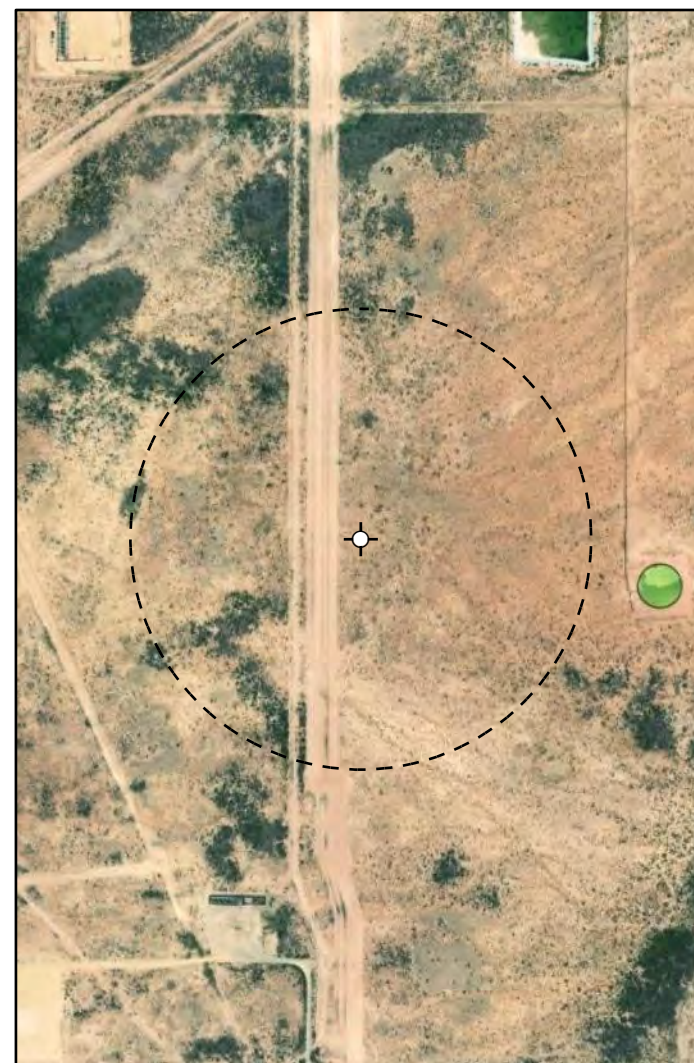
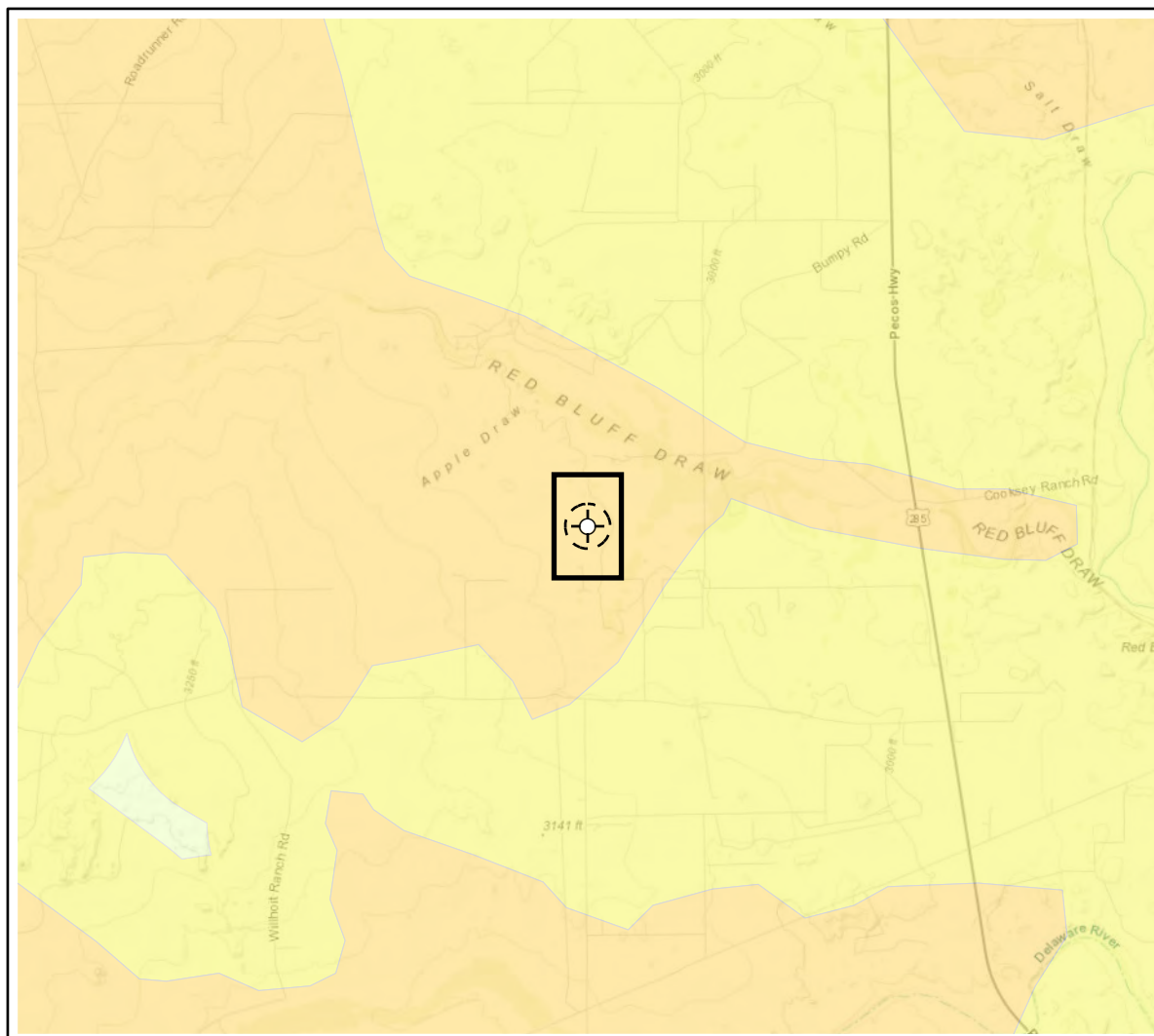
-  DHI Landes to SRO Line
-  FEMA Flood Zone A
-  Landen to SRO
-  Line Measure
-  Release Point
-  ROE



DHI Landes to SRO Line

Release Point





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

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



## 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.



# National Flood Hazard Layer FIRMette



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

Released to Imaging: 12/4/2024 3:13:16 PM

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 Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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.



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

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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](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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## How Soil Surveys Are Made

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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

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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

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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

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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.

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## 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.

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## 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%
<b>Totals for Area of Interest</b>		<b>2.6</b>	<b>100.0%</b>

## 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.

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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.

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**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

## Custom Soil Resource Report

**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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# 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 high amounts of CaCO<sub>3</sub>, ranging as high as 40 percent in the subsoil. Rock fragments range from 5 to 50 percent in the subsoil. Reeves, Russler, 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

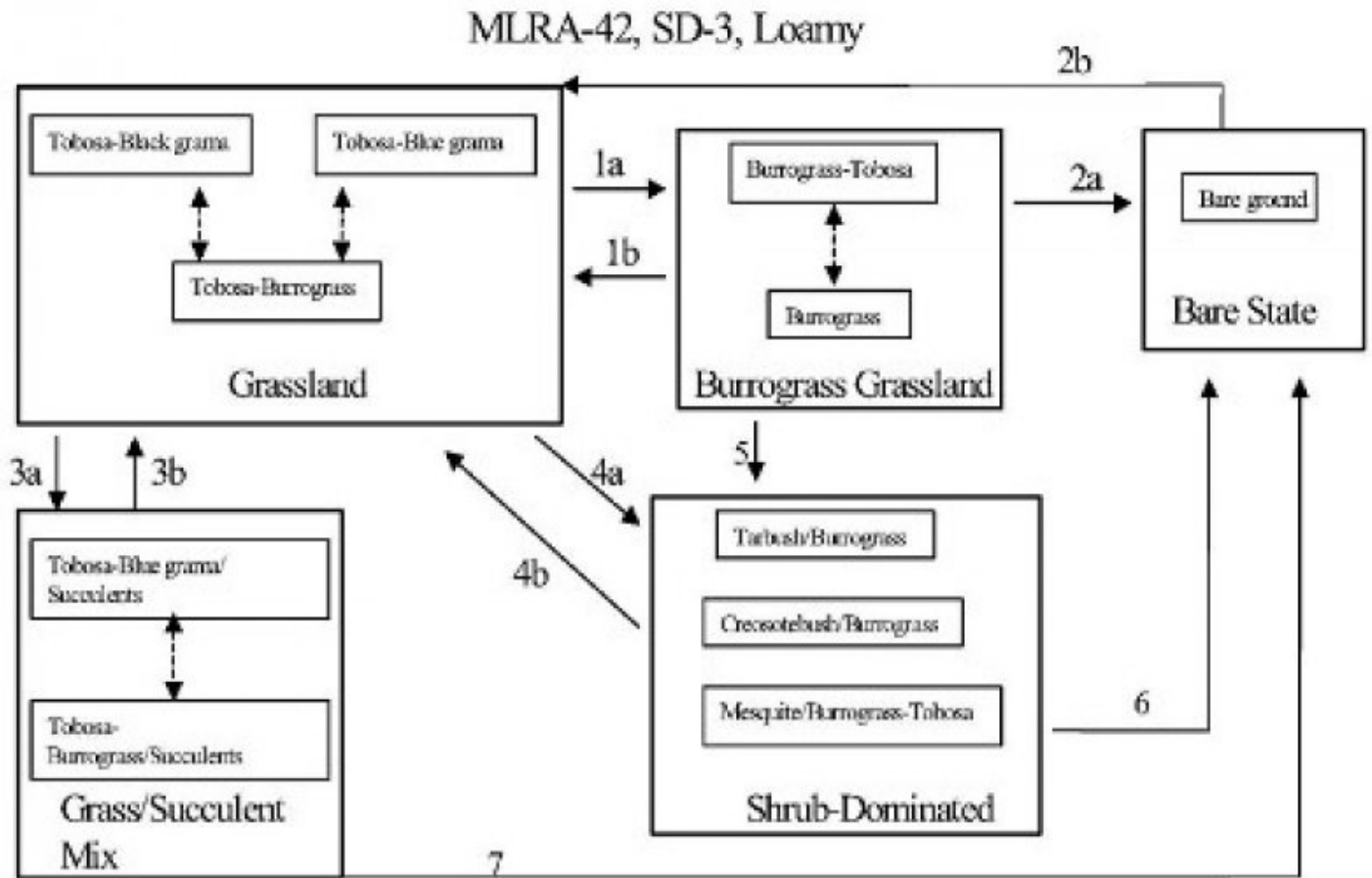
Surface fragment cover <=3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–12 in
Calcium carbonate equivalent (0-40in)	0–10%
Electrical conductivity (0-40in)	0–8 mmhos/cm
Sodium adsorption ratio (0-40in)	0–6
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=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.<sup>1</sup> 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.<sup>3</sup> 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.<sup>4</sup> 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.<sup>2</sup> 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 (%)
<b>Grass/Grasslike</b>					
1	<b>Warm Season</b>			278–324	
	tobosagrass	PLMU3	<i>Pleuraphis mutica</i>	278–324	–
2	<b>Warm Season</b>			9–46	
	burrograss	SCBR2	<i>Scleropogon brevifolius</i>	9–46	–
3	<b>Warm Season</b>			231–278	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	231–278	–
	blue grama	BOGR2	<i>Bouteloua gracilis</i>	231–278	–
4	<b>Warm Season</b>			28–46	
	sideoats grama	BOCU	<i>Bouteloua curtipendula</i>	28–46	–
5	<b>Warm Season</b>			46–93	
	bush muhly	MUPO2	<i>Muhlenbergia porteri</i>	46–93	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	46–93	–
6	<b>Warm Season</b>			9–28	
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	9–28	–
7	<b>Warm Season</b>			46–93	
	threeawn	ARIST	<i>Aristida</i>	46–93	–
	muhly	MUHLE	<i>Muhlenbergia</i>	46–93	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	46–93	–
8	<b>Warm Season</b>			28–46	
	Graminoid (grass or grass-like)	2GRAM	<i>Graminoid (grass or grass-like)</i>	28–46	–
<b>Shrub/Vine</b>					
9	<b>Shrub</b>			9–28	
	fourwing saltbush	ATCA2	<i>Atriplex canescens</i>	9–28	–
	jointfir	EPHED	<i>Ephedra</i>	9–28	–
	winterfat	KRLA2	<i>Krascheninnikovia lanata</i>	9–28	–
	cane bluestem	BOBA3	<i>Bothriochloa barbinodis</i>	5–24	–
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	5–24	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	5–24	–
10	<b>Shrub</b>			9–28	
	javelina bush	COER5	<i>Condalia ericoides</i>	9–28	–
	broom snakeweed	GUSA2	<i>Gutierrezia sarothrae</i>	9–28	–
	Grass, annual	2GA	<i>Grass, annual</i>	5–15	–
11	<b>Shrubs</b>			9–28	
	Shrub (>.5m)	2SHRUB	<i>Shrub (&gt;.5m)</i>	9–28	–
<b>Forb</b>					

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

## 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:

1. Brooks, M.L., AND D.A. Pyke. 2001. Invasive plants and fire in the deserts of North America. Pages 1–14 in K.E.M. Galley and T.P. Wilson (eds.). Proceedings of the Invasive Species Workshop: the Role of Fire in the Control and Spread of Invasive Species.
2. Bunting, S.C., H.A. Wright, and L.F. Neuenschwander. 1980. Long-term effects of fire on cactus in the Southern Mixed Prairie of Texas. J. Range. Manage. 33: 85-88.
3. Laycock, W.A. 1982. Hail as an ecological factor in the increase of prickly pear cactus. p. 359-361. In: J.A. Smith and V.W. Hays (eds.) Proc. XIV Int. Grassland Congr. Westview Press, Boulder, Colo.
4. Vallentine, J.F. 1989. Range Developments and Improvements. 3rd Edition. Academic Press. San Diego, California.
5. U.S. Department of Agriculture, Natural Resources Conservation Service. 2001. Soil Quality Information Sheet. Rangeland Soil Quality—Physical and Biological Soil Crusts. Rangeland Sheet 6, [Online]. Available: <http://www.statlab.iastate.edu/survey/SQL/range.html>

## 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):**
- 

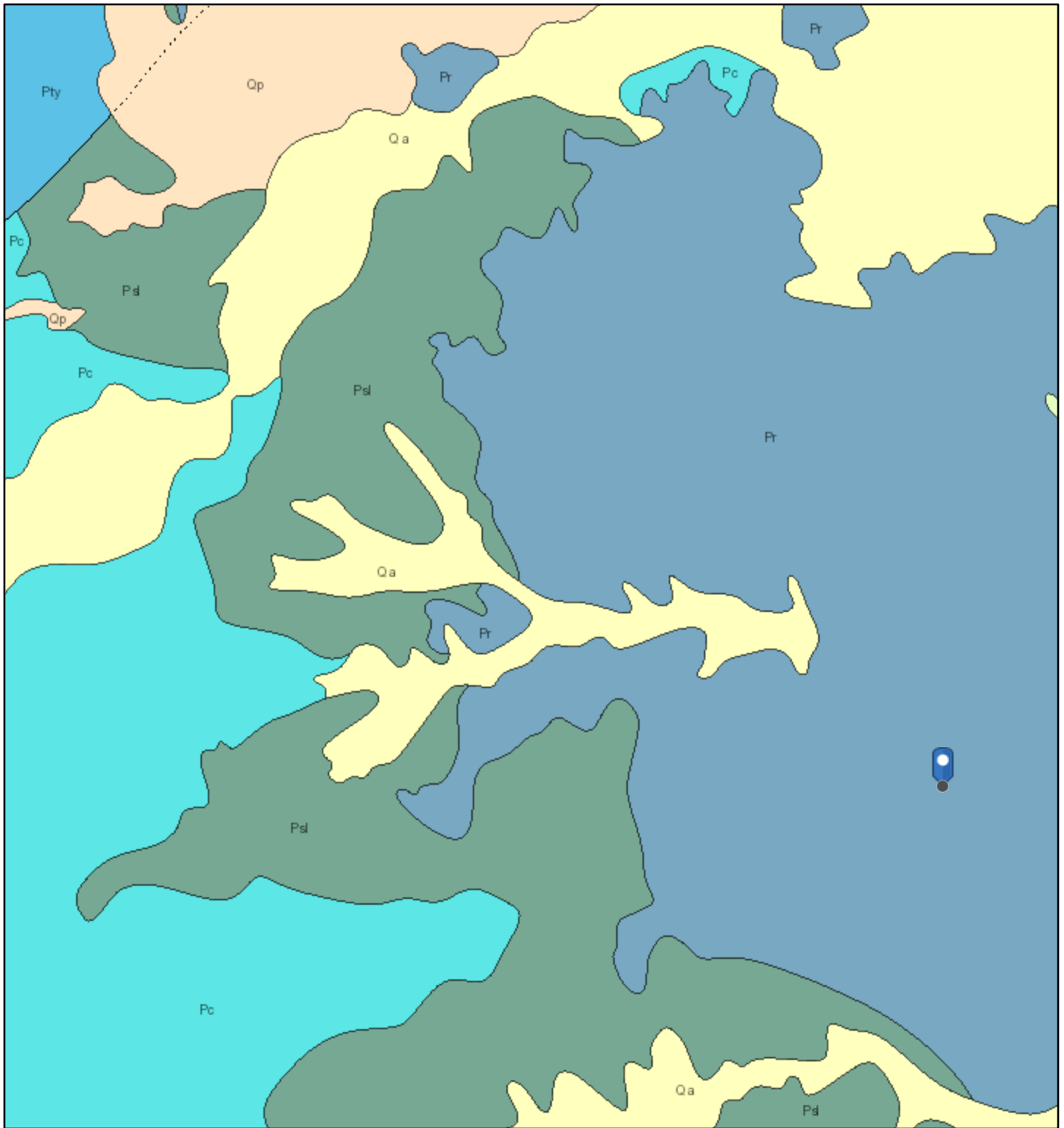
14. **Average percent litter cover (%) and depth ( in):**
- 

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

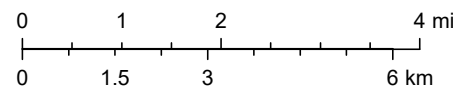


9/28/2024, 1:00:32 PM

1:144,448

## Lithologic Units

- Playa—Alluvium and evaporite deposits (Holocene)
- Water—Perennial 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

## **ATTACHMENT 2**

### **Sample Locations**





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



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

Map Center:  
Lat: 32.086652,  
Long: -104.116783



### Characterization Sampling Site Schematic DHI Lands 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.

Document Path: G:\1-Projects\ US PROJECTS\BHS-DHI\24E-03618\Figure 2 Characterization Schematic (24E-03618)\D19365.mxd

**ATTACHMENT 3**  
**Daily Field Report**



## Daily Site Visit Report

Client:	BHS/DHI-Dalbo Holdings Inc.	Inspection Date:	7/23/2024
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	7/23/2024 11:47 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	7/23/2024 10:00 AM
Departed Site	7/23/2024 4:00 PM





## Daily Site Visit Report

Client:	BHS/DHI-Dalbo Holdings Inc.	Inspection Date:	7/24/2024
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	7/24/2024 10:11 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	7/24/2024 8:00 AM
Departed Site	7/24/2024 3:04 PM

## Daily Site Visit Report



### Field Notes

- 14:33** Completed safety paperwork on site
- 14:33** On site to begin EM survey on pipeline ROW
- 14:34** Reassured to encapsulate all “green to yellow”

### Next Steps & Recommendations

- 1 Continue EM survey

# Daily Site Visit Report



## Site Photos

Viewing Direction: North



Point of release survey area

Viewing Direction: South



Right of way survey area

Viewing Direction: Southeast



Release area into southeast pasture

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Austin Harris

**Signature:**

A handwritten signature in black ink, appearing to be 'AH' with a long horizontal stroke extending to the right.

Signature



# Daily Site Visit Report

Client:	BHS/DHI-Dalbo Holdings Inc.	Inspection Date:	7/25/2024
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	7/27/2024 6:42 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	7/25/2024 6:30 AM
Departed Site	7/25/2024 3:00 PM



## Daily Site Visit Report



### Field Notes

- 14:30** Completed safety paperwork on site
- 14:30** Continued RM survey.
- 14:30** Encapsulate the northern part of the southeastern most release area.
- 14:32** Encapsulate southeastern most southern portion of the release.

### Next Steps & Recommendations

- 1 Continue EM survey

## Daily Site Visit Report



## Site Photos

Viewing Direction: North



Descriptive Photo - 1  
Viewing Direction: North  
Date: Approximately 200 yards of pipeline ROW left to survey  
Created: 7/25/2024 2:40:28 PM  
Lat:32.585006, Long:-104.117649

Approximately 200 yards of pipeline ROW left to survey

Viewing Direction: South



Descriptive Photo - 2  
Viewing Direction: South  
Date: Began at crest of hill  
Created: 7/25/2024 2:40:50 PM  
Lat:32.585004, Long:-104.117651

Began at crest of hill

Viewing Direction: South



Descriptive Photo - 3  
Viewing Direction: South  
Date: Closest line on immediate west side of release  
Created: 7/25/2024 2:41:38 PM  
Lat:32.585004, Long:-104.117655

Closest line on immediate west side of release is a Targa natural gas pipeline

Viewing Direction: South



Descriptive Photo - 4  
Viewing Direction: South  
Date: South side of hill crest already surveyed  
Created: 7/25/2024 2:45:47 PM  
Lat:32.585499, Long:-104.117678

South side of hill crest already surveyed

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Austin Harris

**Signature:**

A handwritten signature in black ink, appearing to be 'AH', written over a horizontal line.

Signature





# Daily Site Visit Report

Client:	BHS/DHI-Dalbo Holdings Inc.	Inspection Date:	7/27/2024
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	7/27/2024 6:41 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	7/27/2024 7:45 AM
Departed Site	7/27/2024 11:30 AM

## Daily Site Visit Report



### Field Notes

- 10:23** Completed safety paperwork on site
- 10:23** Completed EM survey on north end of release
- 10:24** Followed high conductivity numbers on east-west running pipeline

### Next Steps & Recommendations

- 1 Compile EM survey data

# Daily Site Visit Report



## Site Photos

Viewing Direction: West



Descriptive Photo - 1  
Viewing Direction: West  
Desc: Metal guard along east-west pipeline  
Created: 7/27/2024 10:24:30 AM  
Lat:32.090547, Long:-104.117832

Metal guard along east-west pipeline

Viewing Direction: East



Descriptive Photo - 2  
Viewing Direction: East  
Desc: East-west running underground pipeline with barren surrounding area  
Created: 7/27/2024 10:24:59 AM  
Lat:32.090554, Long:-104.117858

East-west running underground pipeline with barren surrounding area

Viewing Direction: North



Descriptive Photo - 3  
Viewing Direction: North  
Desc: Northern end of release where topography slopes upward and contamination stops  
Created: 7/27/2024 10:25:30 AM  
Lat:32.090546, Long:-104.117823

Northern end of release where topography slopes upward and contamination stops

Viewing Direction: South



Descriptive Photo - 4  
Viewing Direction: South  
Desc: Pipeline ROW previously survey over course of 3 days from south of crest of hill  
Created: 7/27/2024 10:26:13 AM  
Lat:32.090546, Long:-104.117812

Pipeline ROW previously survey over course of 3 days from south of crest of hill

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Austin Harris

**Signature:**

A handwritten signature in black ink, appearing to be 'AH' with a large loop and a horizontal stroke.

Signature





## Daily Site Visit Report

Client:	BHS/DHI-Dalbo Holdings Inc.	Inspection Date:	8/5/2024
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	8/7/2024 1:32 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	8/5/2024 7:35 AM
Departed Site	8/5/2024 2:16 PM

### Field Notes

**11:29** Walk spill area and go over scope of work with Chad  
**11:29** Grab surface samples for delineation

### Next Steps & Recommendations

1 Delineate down after horizontal delineation is done

# Daily Site Visit Report



## Site Photos

Viewing Direction: East



Descriptive Photo - 1  
Viewing Direction: East  
Desc: Surface sample BS24-01  
Titration 555 chl  
Created: 8/5/2024 11:41:32 AM  
Lat:32.091003, Long:-104.117808

Surface sample BS24-01  
Titration 555 chl

Viewing Direction: East



Descriptive Photo - 2  
Viewing Direction: East  
Desc: Surface sample titration  
BS24-02  
Titration 500 chl  
Created: 8/5/2024 11:42:16 AM  
Lat:32.090895, Long:-104.117612

Surface sample titration  
BS24-02  
Titration 500 chl

Viewing Direction: East



Descriptive Photo - 3  
Viewing Direction: East  
Desc: Surface sample delineation BH24-03  
510 chloride  
Created: 8/5/2024 11:45:12 AM  
Lat:32.088641, Long:-104.117808

Surface sample delineation BH24-03  
510 chloride

## 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:	8/8/2024
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	10/9/2024 8:09 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	8/8/2024 8:30 AM
Departed Site	8/8/2024 4:00 PM

### Field Notes

**14:37** Delineate spill on road with samples BH24-01 to 15  
**14:36** Grab samples at 4'

### Next Steps & Recommendations

1 Finish delineating areas BH24-07 to 15 @ 4'



## Daily Site Visit Report



## Site Photos

Viewing Direction: East



BH24-01 @ 4'

Viewing Direction: East



BH24-02 @ 4'

Viewing Direction: East



BH24-03 @ 4'

Viewing Direction: East



BH24-04 @ 4'



## Daily Site Visit Report



## 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:	8/9/2024
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	10/9/2024 8:09 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	8/9/2024 9:40 AM
Departed Site	8/9/2024 12:15 PM

### Field Notes

**10:45** Delineate BS24-07 to 15 @ 4'

### Next Steps & Recommendations

**1** Send off samples to lab for analysis



## Daily Site Visit Report



## Site Photos

Viewing Direction: East



BS24-07 @ 4'

Viewing Direction: East



BS24-08 @ 4'

Viewing Direction: East



BS24-09 @ 4'





Viewing Direction: East



BH24-10 @ 4'



## Daily Site Visit Report

<p><b>Viewing Direction: East</b></p>  <p>BS24-11 @ 4'</p>	<p><b>Viewing Direction: East</b></p>  <p>BS24-12 @ 4'</p>
<p><b>Viewing Direction: East</b></p>  <p>BS24-13 @ 4'</p>	<p><b>Viewing Direction: East</b></p>  <p>BS24-14 @ 4'</p>



## Daily Site Visit Report



## Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Plogger

Signature:

A handwritten signature in black ink, appearing to be 'Riley Plogger', written over a horizontal line.

Signature





## Daily Site Visit Report

Client:	BHS/DHI-Dalbo Holdings Inc.	Inspection Date:	8/12/2024
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	8/12/2024 10:32 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	8/12/2024 8:21 AM
Departed Site	8/12/2024 3:13 PM

### Field Notes

**8:55** Arrived on site; assessed site and completed safety paperwork.

Used magnetic line sweeper in areas of planned ground disturbance.

**16:29** On site to collect horizontal delineation sample on the south and west portion of the release.

I collected samples BH24-16 at 0 and 1.75' (hit refusal); BH24-17 to BH24-20 at 0', 2', and 4' bgs.

**16:29** All samples were field screened for chlorides using silver nitrate titration. All samples passed NMOCD strictest criteria during initial field screening except BH24-20 at 4'.

**16:29** Collected BH24-20 at 5' bgs and field screened for chlorides. Sample passed field screening criteria

**16:29** Samples BH24-16 to BH24-20 at surface (0') and BH24-20 at 5' were screened for TPH using a Dexsil Petroflag. All samples passed NMOCD strictest criteria during initial field screening.

**14:28** All samples (15) transported to office lab. I will consult with PM on what samples will be jarred and sent to laboratory for further analysis.

### Next Steps & Recommendations

# Daily Site Visit Report

1



# Daily Site Visit Report



## Site Photos

Viewing Direction: North



Descriptive Photo - 1  
Viewing Direction: North  
Desc: BH24-17 collected at surface (0,0) and 1.75' bgs. 1 hit refusal at 1.75'.  
Created: 8/12/2024 2:35:01 PM  
Lat:32.083007, Long:-104.117704

BH24-16 collected at surface (0') and 1.75' bgs. 1 hit refusal at 1.75'.

Viewing Direction: North



Descriptive Photo - 2  
Viewing Direction: North  
Desc: BH24-18 collected at surface (0,0), 2' bgs and 4'.  
Created: 8/12/2024 2:43:20 PM  
Lat:32.084228, Long:-104.117706

BH24-17 collected at surface (0'), 2' and 4' bgs.

Viewing Direction: North



Descriptive Photo - 3  
Viewing Direction: North  
Desc: BH24-19 collected at surface (0,0), 2' bgs and 4'.  
Created: 8/12/2024 2:48:20 PM  
Lat:32.084907, Long:-104.117709

BH24-18 collected at surface (0'), 2' and 4' bgs.

Viewing Direction: North



Descriptive Photo - 4  
Viewing Direction: North  
Desc: BH24-16 collected at surface (0,0), 2' bgs and 4'.  
Created: 8/12/2024 2:51:15 PM  
Lat:32.085006, Long:-104.117701

BH24-19 collected at surface (0'), 2' and 4' bgs.



## Daily Site Visit Report

Viewing Direction: East



BH24-20 collected at surface (0'), 2', 4', and 5' bgs.



## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Andrew Ludvik

**Signature:**

  
Signature



## Daily Site Visit Report

Client:	BHS/DHI-Dalbo Holdings Inc.	Inspection Date:	8/28/2024
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	10/9/2024 8:12 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	8/28/2024 8:10 AM
Departed Site	8/28/2024 2:40 PM

### Field Notes

**13:15** Delineate south edge of spill up to release point finding edge

**13:14** Field screen samples

### Next Steps & Recommendations

1 Jar samples and send off to lab for analysis

## Daily Site Visit Report



## Site Photos

Viewing Direction: North



Delineation of spill BH24-20 @ 4'

Viewing Direction: East



BH24-21 @ 4'

Viewing Direction: East



BH24-22 @ 4'





Viewing Direction: East



BH24-23 @ 4'







## Daily Site Visit Report

<p><b>Viewing Direction: South</b></p>  <p>Descriptive Photo - 5 Viewing Direction: South Date: BH24-24 @ 4' Created: 8/28/2024 2:25:04 PM Lat: 32.083889, Long: -104.110494</p>	<p><b>Viewing Direction: North</b></p>  <p>Descriptive Photo - 6 Viewing Direction: North Date: BH24-25 @ 4' Created: 8/28/2024 2:25:05 PM Lat: 32.083787, Long: -104.110494</p>
BH24-24 @ 4'	BH24-25 @ 4'
<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 7 Viewing Direction: East Date: BH24-26 @ 4' Created: 8/28/2024 1:45:54 PM Lat: 32.083392, Long: -104.110491</p>	<p><b>Viewing Direction: North</b></p>  <p>Descriptive Photo - 8 Viewing Direction: North Date: BH24-27 @ 4' Created: 8/28/2024 1:45:55 PM Lat: 32.083227, Long: -104.110490</p>
BH24-26 @ 4'	BH24-27 @ 4'









## Daily Site Visit Report

<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 9 Viewing Direction: East Date: BH24-28 @ 4 Created: 8/28/2024 1:47:37 PM Lat:32.063200, Long:-104.118307</p>	<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 10 Viewing Direction: East Date: BH24-29 @ 4 Created: 8/28/2024 1:47:37 PM Lat:32.063145, Long:-104.118307</p>
BH24-28 @ 4'	BH24-29 @ 4'
<p><b>Viewing Direction: West</b></p>  <p>Descriptive Photo - 11 Viewing Direction: West Date: BH24-30 @ 4 Created: 8/28/2024 1:48:11 PM Lat:32.063171, Long:-104.118288</p>	<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 12 Viewing Direction: East Date: BH24-31 @ 4 Created: 8/28/2024 1:47:31 PM Lat:32.062578, Long:-104.117504</p>
BH24-30 @ 4'	BH24-31 @ 4'

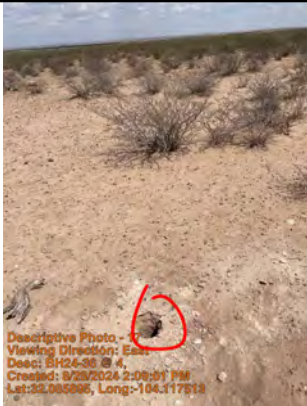




## Daily Site Visit Report

<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 13 Viewing Direction: East Desc: BH24-32 @ 4' Created: 8/28/2024 2:28:12 PM Lat:32.063686, Long:-104.117567</p>	<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 14 Viewing Direction: East Desc: BH24-33 @ 4' Created: 8/28/2024 2:21:57 PM Lat:32.064246, Long:-104.117602</p>
BH24-32 @ 4'	BH24-33 @ 4'
<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 15 Viewing Direction: East Desc: BH24-34 @ 4' Created: 8/28/2024 2:30:43 PM Lat:32.064789, Long:-104.117597</p>	<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 16 Viewing Direction: East Desc: BH24-35 @ 4' Created: 8/28/2024 2:19:19 PM Lat:32.064490, Long:-104.117596</p>
BH24-34 @ 4'	BH24-35 @ 4'



## Daily Site Visit Report

Viewing Direction: East	Viewing Direction: West	
 <p>Descriptive Photo - 37 Viewing Direction: East Date: 9/23/2024 Created: 9/23/2024 2:09:01 PM Lat: 32.085805, Long: -104.117513</p>	 <p>Descriptive Photo - 37 Viewing Direction: West Date: 9/23/2024 Created: 9/23/2024 2:09:27 PM Lat: 32.085875, Long: -104.117513</p>	
BH24-36 @ 4'	BH24-37 @ 4'	
<th>Viewing Direction: West</th>		Viewing Direction: West
 <p>Descriptive Photo - 19 Viewing Direction: East Date: 9/23/2024 Created: 9/23/2024 1:14:03 PM Lat: 32.085409, Long: -104.113579</p>		
BH24-16 @ 4'		

## 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:	8/26/2024
Site Location Name:	DHI Landes to SRO Line	Report Run Date:	10/9/2024 8:12 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	8/26/2024 8:20 AM
Departed Site	8/26/2024 1:00 PM

### Field Notes

**12:00** Delineate areas around release point and on the south end of the spill going out towards the pasture of ROE

**12:01** Collect sample points BH24-16 to 21





### Next Steps & Recommendations

1 Field screen samples. Send off to lab for analysis

## Daily Site Visit Report







## Site Photos

<p>Viewing Direction: East</p>  <p>Descriptive Photo - 1 Viewing Direction: East Date: BH24-16 Created: 8/22/2024 12:30:23 PM</p>	<p>Viewing Direction: East</p>  <p>Descriptive Photo - 2 Viewing Direction: East Date: BH24-16B Created: 8/22/2024 12:30:24 PM</p>
BH24-16	BH24-16B
<p>Viewing Direction: East</p>  <p>Descriptive Photo - 3 Viewing Direction: East Date: BH24-16C Created: 8/22/2024 12:30:10 PM</p>	<p>Viewing Direction: East</p>  <p>Descriptive Photo - 4 Viewing Direction: East Date: BH24-17 Created: 8/22/2024 12:30:47 PM Lat: 32.085486, Long: -104.177808</p>
BH24-16C	BH24-17







## Daily Site Visit Report

<p>Viewing Direction: East</p>  <p>Descriptive Photo - 5 Viewing Direction: East Date: BH24-17B Created: 8/28/2024 12:40:14 PM Lat: 32.085458, Long: -104.117559</p>	<p>Viewing Direction: East</p>  <p>Descriptive Photo - 6 Viewing Direction: East Date: BH24-17C Created: 8/28/2024 12:40:23 PM Lat: 32.085416, Long: -104.117497</p>
BH24-17B	BH24-17C
<p>Viewing Direction: East</p>  <p>Descriptive Photo - 7 Viewing Direction: East Date: BH24-18 Created: 8/28/2024 12:41:04 PM Lat: 32.085638, Long: -104.117500</p>	<p>Viewing Direction: East</p>  <p>Descriptive Photo - 8 Viewing Direction: East Date: BH24-18B Created: 8/28/2024 12:41:23 PM Lat: 32.085687, Long: -104.117492</p>
BH24-18	BH24-18B




## Daily Site Visit Report

<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 8 Viewing Direction: East Desc: BH24-18C Created: 9/28/2024 12:01:43 PM Lat:32.085583, Long:-104.117833</p>	<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 10 Viewing Direction: East Desc: BH24-19 @ 4' Created: 9/28/2024 12:36:24 PM Lat:32.085587, Long:-104.117833</p>
BH24-18C	BH24-19 @ 4'
<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 11 Viewing Direction: East Desc: BH24-20 @ 4' Created: 9/28/2024 12:44:20 PM Lat:32.085583, Long:-104.117833</p>	<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 12 Viewing Direction: East Desc: BH24-21 @ 1' Horizontal delineation Created: 9/28/2024 12:45:17 PM Lat:32.085574, Long:-104.117831</p>
BH24-20 @ 4'	BH24-21 @ 1'
	Horizontal delineation





## Daily Site Visit Report

Viewing Direction: East	
	<div><p>Vertex Photo - 15 Viewing Direction: East Depth: 3.5' @ 3.5' NUSA Vertical delineation Project: BH24-22 12:05:05 PM Lat: 33.015274, Long: -104.117848</p></div>
BH24-22 @ 3.5' refusal Vertical delineation	

## Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Plogger

Signature:

  
Signature

**ATTACHMENT 4**  
**Laboratory Results Table and Laboratory Analysis**

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
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
(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



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)**



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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.



# 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  
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Client: Vertex  
Project/Site: Landes to SRO Line

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

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

## Case Narrative

Client: Vertex  
Project: Landes to SRO Line

Job ID: 890-7066-1

Job ID: 890-7066-1

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**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.

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**Case Narrative**

Client: Vertex  
Project: Landes to SRO Line

Job ID: 890-7066-1

**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.

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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: 890-7066-1

Date Collected: 08/28/24 08:30

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	<0.00200	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

Lab Sample ID: 890-7066-2

Date Collected: 08/28/24 08:33

Matrix: Solid

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 08:34	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

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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: 890-7066-2

Date Collected: 08/28/24 08:33

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 3

## 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

Lab Sample ID: 890-7066-3

Date Collected: 08/28/24 08:37

Matrix: Solid

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	<0.00199	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

Date Collected: 08/28/24 08:37

Matrix: Solid

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

Date Collected: 08/28/24 08:43

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	<0.00200	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

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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: BH24-17

Lab Sample ID: 890-7066-4

Date Collected: 08/28/24 08:43

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 1

## 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

Lab Sample ID: 890-7066-5

Date Collected: 08/28/24 08:46

Matrix: Solid

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	<0.00201	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

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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: BH24-17

Lab Sample ID: 890-7066-6

Date Collected: 08/28/24 08:49

Matrix: Solid

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	<0.00201	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

Lab Sample ID: 890-7066-7

Date Collected: 08/28/24 08:55

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 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

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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: BH24-18

Lab Sample ID: 890-7066-7

Date Collected: 08/28/24 08:55

Matrix: Solid

Date Received: 08/30/24 08:50

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	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

Lab Sample ID: 890-7066-8

Date Collected: 08/28/24 08:59

Matrix: Solid

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	<0.00198	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

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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: BH24-18

Lab Sample ID: 890-7066-8

Date Collected: 08/28/24 08:59

Matrix: Solid

Date Received: 08/30/24 08:50

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	<49.9	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

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: 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

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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: BH24-18

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

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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: BH24-19

Lab Sample ID: 890-7066-11

Date Collected: 08/28/24 09:13

Matrix: Solid

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	<0.00198	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

Lab Sample ID: 890-7066-12

Date Collected: 08/28/24 09:16

Matrix: Solid

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 08:34	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

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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: BH24-19

Lab Sample ID: 890-7066-12

Date Collected: 08/28/24 09:16

Matrix: Solid

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)	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

Lab Sample ID: 890-7066-13

Date Collected: 08/28/24 09:23

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 08:34	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

Lab Sample ID: 890-7066-13

Date Collected: 08/28/24 09:23

Matrix: Solid

Date Received: 08/30/24 08:50

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		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

Lab Sample ID: 890-7066-14

Date Collected: 08/28/24 09:26

Matrix: Solid

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	<0.00201	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

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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

Lab Sample ID: 890-7066-14

Date Collected: 08/28/24 09:26

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 3

## 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

Lab Sample ID: 890-7066-15

Date Collected: 08/28/24 09:31

Matrix: Solid

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	<0.00199	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

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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

Lab Sample ID: 890-7066-16

Date Collected: 08/28/24 09:35

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	<0.00198	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

Lab Sample ID: 890-7066-17

Date Collected: 08/28/24 09:37

Matrix: Solid

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 08:34	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

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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

Lab Sample ID: 890-7066-17

Date Collected: 08/28/24 09:37

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 3

## 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

Lab Sample ID: 890-7066-18

Date Collected: 08/28/24 09:41

Matrix: Solid

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 08:34	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

Lab Sample ID: 890-7066-18

Date Collected: 08/28/24 09:41

Matrix: Solid

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	<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

Lab Sample ID: 890-7066-19

Date Collected: 08/28/24 09:47

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	<0.00200	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

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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: BH24-22

Lab Sample ID: 890-7066-19

Date Collected: 08/28/24 09:47

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 1

## 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

Lab Sample ID: 890-7066-20

Date Collected: 08/28/24 09:51

Matrix: Solid

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	<0.00201	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

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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: BH24-22

Lab Sample ID: 890-7066-21

Date Collected: 08/28/24 09:54

Matrix: Solid

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

Date Collected: 08/28/24 09:59

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 08:36	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

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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

Lab Sample ID: 890-7066-22

Date Collected: 08/28/24 09:59

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 1

## 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

Lab Sample ID: 890-7066-23

Date Collected: 08/28/24 10:04

Matrix: Solid

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 08:36	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

Lab Sample ID: 890-7066-23

Date Collected: 08/28/24 10:04

Matrix: Solid

Date Received: 08/30/24 08:50

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 *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

Lab Sample ID: 890-7066-24

Date Collected: 08/28/24 10:09

Matrix: Solid

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 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

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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

Lab Sample ID: 890-7066-24

Date Collected: 08/28/24 10:09

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	7.55		4.98	mg/Kg			09/05/24 13:33	1

Client Sample ID: BH24-24

Lab Sample ID: 890-7066-25

Date Collected: 08/28/24 10:14

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	09/03/24 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

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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: BH24-24

Lab Sample ID: 890-7066-26

Date Collected: 08/28/24 10:18

Matrix: Solid

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	<0.00201	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

Lab Sample ID: 890-7066-27

Date Collected: 08/28/24 10:22

Matrix: Solid

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	<0.00199	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

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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: BH24-24

Lab Sample ID: 890-7066-27

Date Collected: 08/28/24 10:22

Matrix: Solid

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

Date Collected: 08/28/24 10:27

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	<0.00198	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

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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: BH24-25

Lab Sample ID: 890-7066-28

Date Collected: 08/28/24 10:27

Matrix: Solid

Date Received: 08/30/24 08:50

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	<50.0	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

Lab Sample ID: 890-7066-29

Date Collected: 08/28/24 10:33

Matrix: Solid

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	<0.00200	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

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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: BH24-25

Lab Sample ID: 890-7066-29

Date Collected: 08/28/24 10:33

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 3

## 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

Lab Sample ID: 890-7066-30

Date Collected: 08/28/24 10:36

Matrix: Solid

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	<0.00199	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

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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

Lab Sample ID: 890-7066-31

Date Collected: 08/28/24 10:40

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	<0.00198	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

Lab Sample ID: 890-7066-32

Date Collected: 08/28/24 10:44

Matrix: Solid

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	<0.00200	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

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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

Lab Sample ID: 890-7066-32

Date Collected: 08/28/24 10:44

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 3

## 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

Lab Sample ID: 890-7066-33

Date Collected: 08/28/24 10:48

Matrix: Solid

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	<0.00201	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

Lab Sample ID: 890-7066-33

Date Collected: 08/28/24 10:48

Matrix: Solid

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	<49.8	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

Lab Sample ID: 890-7066-34

Date Collected: 08/28/24 10:54

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	09/03/24 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

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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: BH24-27

Lab Sample ID: 890-7066-34

Date Collected: 08/28/24 10:54

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 1

## 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

Lab Sample ID: 890-7066-35

Date Collected: 08/28/24 10:59

Matrix: Solid

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 08:36	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

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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: BH24-27

Lab Sample ID: 890-7066-36

Date Collected: 08/28/24 11:04

Matrix: Solid

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

Date Collected: 08/28/24 11:12

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 08:36	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

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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

Lab Sample ID: 890-7066-37

Date Collected: 08/28/24 11:12

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 1

## 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

Lab Sample ID: 890-7066-38

Date Collected: 08/28/24 11:15

Matrix: Solid

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	<0.00200	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

Lab Sample ID: 890-7066-38

Date Collected: 08/28/24 11:15

Matrix: Solid

Date Received: 08/30/24 08:50

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	<49.9	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

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: 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

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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

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

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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: BH24-29

Lab Sample ID: 890-7066-41

Date Collected: 08/28/24 11:24

Matrix: Solid

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	<0.00200	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

Lab Sample ID: 890-7066-42

Date Collected: 08/28/24 11:27

Matrix: Solid

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	<0.00199	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

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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: BH24-29

Lab Sample ID: 890-7066-42

Date Collected: 08/28/24 11:27

Matrix: Solid

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

Date Collected: 08/28/24 11:34

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 08:39	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

Lab Sample ID: 890-7066-43

Date Collected: 08/28/24 11:34

Matrix: Solid

Date Received: 08/30/24 08:50

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	<49.8	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

Lab Sample ID: 890-7066-44

Date Collected: 08/28/24 11:37

Matrix: Solid

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	<0.00200	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

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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

Lab Sample ID: 890-7066-44

Date Collected: 08/28/24 11:37

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 3

## 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

Lab Sample ID: 890-7066-45

Date Collected: 08/28/24 11:41

Matrix: Solid

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	<0.00201	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

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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: BH24-31

Lab Sample ID: 890-7066-46

Date Collected: 08/28/24 11:49

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 08:39	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

Date Collected: 08/28/24 11:53

Matrix: Solid

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

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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: BH24-31

Lab Sample ID: 890-7066-47

Date Collected: 08/28/24 11:53

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 3

## 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

Lab Sample ID: 890-7066-48

Date Collected: 08/28/24 11:57

Matrix: Solid

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 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

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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: BH24-31

Lab Sample ID: 890-7066-48

Date Collected: 08/28/24 11:57

Matrix: Solid

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	<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

Lab Sample ID: 890-7066-49

Date Collected: 08/28/24 12:10

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	<0.00200	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

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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: BH24-32

Lab Sample ID: 890-7066-49

Date Collected: 08/28/24 12:10

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 1

## 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

Lab Sample ID: 890-7066-50

Date Collected: 08/28/24 12:14

Matrix: Solid

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 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

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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: BH24-32

Lab Sample ID: 890-7066-51

Date Collected: 08/28/24 12:19

Matrix: Solid

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

Date Collected: 08/28/24 12:24

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	<0.00200	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

Lab Sample ID: 890-7066-52

Date Collected: 08/28/24 12:24

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 1

## 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

Lab Sample ID: 890-7066-53

Date Collected: 08/28/24 12:27

Matrix: Solid

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	<0.00201	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

Lab Sample ID: 890-7066-53

Date Collected: 08/28/24 12:27

Matrix: Solid

Date Received: 08/30/24 08:50

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		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

Lab Sample ID: 890-7066-54

Date Collected: 08/28/24 12:33

Matrix: Solid

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	<0.00201	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

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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

Lab Sample ID: 890-7066-54

Date Collected: 08/28/24 12:33

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	7.70		4.96	mg/Kg			09/05/24 06:19	1

Client Sample ID: BH24-34

Lab Sample ID: 890-7066-55

Date Collected: 08/28/24 12:37

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 08:39	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

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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: BH24-34

Lab Sample ID: 890-7066-56

Date Collected: 08/28/24 12:42

Matrix: Solid

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	<0.00198	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

Lab Sample ID: 890-7066-57

Date Collected: 08/28/24 12:47

Matrix: Solid

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	<0.00199	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

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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: BH24-34

Lab Sample ID: 890-7066-57

Date Collected: 08/28/24 12:47

Matrix: Solid

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

Date Collected: 08/28/24 12:53

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	<0.00200	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

Lab Sample ID: 890-7066-58

Date Collected: 08/28/24 12:53

Matrix: Solid

Date Received: 08/30/24 08:50

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	<50.0	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

Lab Sample ID: 890-7066-59

Date Collected: 08/28/24 12:58

Matrix: Solid

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	<0.00200	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

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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

Lab Sample ID: 890-7066-59

Date Collected: 08/28/24 12:58

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 3

## 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

Lab Sample ID: 890-7066-60

Date Collected: 08/28/24 01:04

Matrix: Solid

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	<0.00201	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

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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: 890-7066-61

Date Collected: 08/28/24 01:09

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	<0.00200	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

Date Collected: 08/28/24 01:14

Matrix: Solid

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

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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: 890-7066-62

Date Collected: 08/28/24 01:14

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 3

## 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

Lab Sample ID: 890-7066-63

Date Collected: 08/28/24 01:19

Matrix: Solid

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	<0.00199	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

Date Collected: 08/28/24 01:19

Matrix: Solid

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

Date Collected: 08/28/24 01:25

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	<0.00200	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

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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: BH24-37

Lab Sample ID: 890-7066-64

Date Collected: 08/28/24 01:25

Matrix: Solid

Date Received: 08/30/24 08:50

Sample Depth: 1

## 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

Lab Sample ID: 890-7066-65

Date Collected: 08/28/24 01:35

Matrix: Solid

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	<0.00201	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

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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: BH24-37

Lab Sample ID: 890-7066-66

Date Collected: 08/28/24 01:40

Matrix: Solid

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	<0.00201	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

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## 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	DFBZ1
		(70-130)	(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

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## 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
<b>Surrogate Legend</b>			
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

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## Surrogate Summary

Client: Vertex

Job ID: 890-7066-1

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)	
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

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## Surrogate Summary

Client: Vertex

Job ID: 890-7066-1

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)	
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

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## 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

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## 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

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## 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	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	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

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## 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

	MSD	MSD	
Surrogate	%Recovery	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	MB							
	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 00:18	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	

	MB	MB							
Surrogate	%Recovery	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	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%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		

	LCS	LCS	
Surrogate	%Recovery	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	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	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	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130

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## 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

	LCSD	LCSD	
Surrogate	%Recovery	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

	MS	MS	
Surrogate	%Recovery	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	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

	MSD	MSD	
Surrogate	%Recovery	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

	MB	MB						
Surrogate	%Recovery	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		

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## 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

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## 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

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## 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

	LCSD	LCSD	
Surrogate	%Recovery	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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1214		mg/Kg		122	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1124		mg/Kg		113	70 - 130	
Surrogate	%Recovery	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

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	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	%Recovery	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

	MB	MB									
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 10:56	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	%Recovery	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			

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## 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	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits	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		

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

			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Analyte											
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	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	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	MS									
	%Recovery	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								

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## 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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -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	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
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	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130			09/03/24 10:58	09/04/24 22:49	1
<i>o</i> -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			
<i>o</i> -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					
<i>o</i> -Terphenyl		100		70 - 130					

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## 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

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## 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

	LCS	LCS	
Surrogate	%Recovery	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	LCSD									
	%Recovery	Qualifier									
1-Chlorooctane	94										
o-Terphenyl	103										

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	MS									
	%Recovery	Qualifier									
1-Chlorooctane	90										
o-Terphenyl	87										

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	MSD									
	%Recovery	Qualifier									
1-Chlorooctane	91										
o-Terphenyl	89										

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## 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

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## 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		

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## 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

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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										Client Sample ID: BH24-34			
Matrix: Solid										Prep Type: Soluble			
Analysis Batch: 90031													
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										Client Sample ID: BH24-34			
Matrix: Solid										Prep Type: Soluble			
Analysis Batch: 90031													
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	

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## 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

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## 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

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## 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	

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## 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	

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## 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	

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## 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	

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## 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

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## 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	

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## 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

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## 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	

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## 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	

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## 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

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## 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

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## 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****Lab Sample ID: 890-7066-1****Date Collected: 08/28/24 08:30****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-2****Date Collected: 08/28/24 08:33****Matrix: Solid****Date Received: 08/30/24 08:50**

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

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

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

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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: BH24-18****Lab Sample ID: 890-7066-7****Date Collected: 08/28/24 08:55****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-8****Date Collected: 08/28/24 08:59****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-9****Date Collected: 08/28/24 09:02****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-10****Date Collected: 08/28/24 09:04****Matrix: Solid****Date Received: 08/30/24 08:50**

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

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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: BH24-19****Lab Sample ID: 890-7066-11****Date Collected: 08/28/24 09:13****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-12****Date Collected: 08/28/24 09:16****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-13****Date Collected: 08/28/24 09:23****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-14****Date Collected: 08/28/24 09:26****Matrix: Solid****Date Received: 08/30/24 08:50**

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

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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: BH24-20  
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

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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: BH24-21

Lab Sample ID: 890-7066-17

Date Collected: 08/28/24 09:37

Matrix: Solid

Date Received: 08/30/24 08:50

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

Lab Sample ID: 890-7066-18

Date Collected: 08/28/24 09:41

Matrix: Solid

Date Received: 08/30/24 08:50

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

Lab Sample ID: 890-7066-19

Date Collected: 08/28/24 09:47

Matrix: Solid

Date Received: 08/30/24 08:50

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

Lab Sample ID: 890-7066-20

Date Collected: 08/28/24 09:51

Matrix: Solid

Date Received: 08/30/24 08:50

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

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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: BH24-22  
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

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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: BH24-23****Lab Sample ID: 890-7066-24****Date Collected: 08/28/24 10:09****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-25****Date Collected: 08/28/24 10:14****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-26****Date Collected: 08/28/24 10:18****Matrix: Solid****Date Received: 08/30/24 08:50**

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

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

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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: BH24-24  
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

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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: BH24-26  
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

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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: BH24-27

Lab Sample ID: 890-7066-34

Date Collected: 08/28/24 10:54

Matrix: Solid

Date Received: 08/30/24 08:50

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

Lab Sample ID: 890-7066-35

Date Collected: 08/28/24 10:59

Matrix: Solid

Date Received: 08/30/24 08:50

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

Lab Sample ID: 890-7066-36

Date Collected: 08/28/24 11:04

Matrix: Solid

Date Received: 08/30/24 08:50

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

Lab Sample ID: 890-7066-37

Date Collected: 08/28/24 11:12

Matrix: Solid

Date Received: 08/30/24 08:50

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

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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: BH24-28****Lab Sample ID: 890-7066-37****Date Collected: 08/28/24 11:12****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-38****Date Collected: 08/28/24 11:15****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-39****Date Collected: 08/28/24 11:18****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-40****Date Collected: 08/28/24 11:21****Matrix: Solid****Date Received: 08/30/24 08:50**

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

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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: BH24-29  
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

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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: BH24-30

Lab Sample ID: 890-7066-44

Date Collected: 08/28/24 11:37

Matrix: Solid

Date Received: 08/30/24 08:50

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

Lab Sample ID: 890-7066-45

Date Collected: 08/28/24 11:41

Matrix: Solid

Date Received: 08/30/24 08:50

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

Lab Sample ID: 890-7066-46

Date Collected: 08/28/24 11:49

Matrix: Solid

Date Received: 08/30/24 08:50

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

Lab Sample ID: 890-7066-47

Date Collected: 08/28/24 11:53

Matrix: Solid

Date Received: 08/30/24 08:50

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

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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: BH24-31****Lab Sample ID: 890-7066-47****Date Collected: 08/28/24 11:53****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-48****Date Collected: 08/28/24 11:57****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-49****Date Collected: 08/28/24 12:10****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-50****Date Collected: 08/28/24 12:14****Matrix: Solid****Date Received: 08/30/24 08:50**

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

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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: BH24-32****Lab Sample ID: 890-7066-51****Date Collected: 08/28/24 12:19****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-52****Date Collected: 08/28/24 12:24****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-53****Date Collected: 08/28/24 12:27****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-54****Date Collected: 08/28/24 12:33****Matrix: Solid****Date Received: 08/30/24 08:50**

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

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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: BH24-33****Lab Sample ID: 890-7066-54****Date Collected: 08/28/24 12:33****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-55****Date Collected: 08/28/24 12:37****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-56****Date Collected: 08/28/24 12:42****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-57****Date Collected: 08/28/24 12:47****Matrix: Solid****Date Received: 08/30/24 08:50**

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

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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: BH24-34****Lab Sample ID: 890-7066-57****Date Collected: 08/28/24 12:47****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-58****Date Collected: 08/28/24 12:53****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-59****Date Collected: 08/28/24 12:58****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-60****Date Collected: 08/28/24 01:04****Matrix: Solid****Date Received: 08/30/24 08:50**

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

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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: BH24-36****Lab Sample ID: 890-7066-61****Date Collected: 08/28/24 01:09****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-62****Date Collected: 08/28/24 01:14****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-63****Date Collected: 08/28/24 01:19****Matrix: Solid****Date Received: 08/30/24 08:50**

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****Lab Sample ID: 890-7066-64****Date Collected: 08/28/24 01:25****Matrix: Solid****Date Received: 08/30/24 08:50**

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

Eurofins Carlsbad



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



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Environment Testing  
Xenco

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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

Chain of Custody

Work Order No: \_\_\_\_\_

www.xenco.com Page \_\_\_\_\_ of \_\_\_\_\_

R770994-avertexresource.com

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:	Utah, Utah, 84048
Phone:	575-361-9639	Email:	TGent@Dalboholdings.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	

Project Name:	Landes to SDO in	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	24E-03618	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush			None: NO DI Water: H <sub>2</sub> O
Project Location:		Due Date:			Cool: Cool MeOH: Me
Sampler's Name:	Riley Plosser	TAT starts the day received by the lab, if received by 4:30pm			HCL: HC HNO <sub>3</sub> : HN
P.O. #:	8833				H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			H <sub>3</sub> PO <sub>4</sub> : HP
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:			NaHSO <sub>4</sub> : NABIS
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:			Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub>
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:			Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:			NaOH+Ascorbic Acid: SAPC



880-7066 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Lab Comp	# of Cont	BTex	TPH (Grav. Dred, MBO)	Chloride	Sample Comments
BH24 - 16	soil	8.28.24	8:30	1	4ms	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			9:09	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<sub>2</sub> Na Sr Ti 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 Ti U      Hg: 1631 / 245.1 / 7470 / 7471

Note: 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
		8:50 8-16			



Environment Testing  
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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

2 of 7

Work Order No: \_\_\_\_\_

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Project Manager:	C. Hensley	Bill to: (if different)	DHI
Company Name:	vertex	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	TGrant@Daibonholdings.com

Work Order Comments			
Program:	UST/PT <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>		
State of Project:			
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>		
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:		

Project Name:	Lanes to SDO line	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres Code	ANALYSIS REQUEST										Preservative Codes		
Project Number:	24E-03618	Due Date:														None: NO	DI Water: H <sub>2</sub> O
Project Location:		TAT starts the day received by the lab, if received by 4:30pm														Cool: Cool	MeOH: Me
Sample's Name:	E. PROGS															HCL: HC	HNO <sub>3</sub> : HN
PO #:	0833															H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes	No	Wetice:	Yes	No										H <sub>3</sub> PO <sub>4</sub> : HP	
Samples Received Intact:	Yes	No		Thermometer ID:												NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:												Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes	No	N/A	Temperature Reading:												Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:												NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Comp	# of Cont	BTEX	TPH(Gro, DRO, mDO)	Chloride											Sample Comments
BH24-19	Soil	8/28/24	9:13	3	9m	1	X	X	X											
19			9:16	4																
20			9:23	2																
20			9:26	3																
20			9:31	4																
21			9:35	1																
21			9:37	3																
21			9:41	4																
22			9:44	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<sub>2</sub> Na Sr Ti 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 Ti 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
		8:50 8/30			



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Environment Testing  
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Chain of Custody

Work Order No: \_\_\_\_\_

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R Piggier A vents resource .com

Project Manager:	C. Hensley	Bill to: (if different)	DHE
Company Name:	VERTEX	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	Tgent@Dalbu Holdings.com
Project Name:		Turn Around	ANALYSIS REQUEST
P. Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code
Project Location:		Due Date:	
Sampler's Name:		TAI starts the day received by the lab; if received by 4:30pm	
PO #:		8833	
SAMPLE RECEIPT		Temp Blank:	Yes No
Samples Received Intact:		Thermometer ID:	Yes No
Cooler Custody Seals:		Correction Factor:	Yes No N/A
Sample Custody Seals:		Temperature Reading:	Yes No N/A
Total Containers:		Corrected Temperature:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	# of Cont	Parameters	Preservative Codes
BH24-22	soil	8.28.24	9:54	4	1	BTex	DI Water: H <sub>2</sub> O
23			9:59	4	1	TPH (Aro, Dro, mRO)	Cool: Cool
23			10:04	3	1	Chloride	HCL: HC
23			10:09	4	1		H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>
24			10:14	3	1		H <sub>3</sub> PO <sub>4</sub> : HP
24			10:18	4	1		NaHSO <sub>4</sub> : NABIS
25			10:22	3	1		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub>
25			10:27	4	1		Zn Acetate+NaOH: Zn
25			10:33	3	1		NaOH+Ascorbic Acid: SAPC
25			10:36	4	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<sub>2</sub> Na Sr Ti 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 Ti U Hg: 1631 / 245.1 / 7470 / 7471

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		8:50 8/5/23			

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Environment Testing  
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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

Chain of Custody

Work Order No: \_\_\_\_\_

R71099 & vertex resource.com

www.xencocom Page \_\_\_\_\_ of \_\_\_\_\_

Project Manager:	C. Hensley	Bill to: (if different)	DH7
Company Name:	Vertex	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	Talents@dalbonholdings.com

Work Order Comments			
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>		
State of Project:			
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>		
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:		

Project Name:	Lyndes to SPO ind	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST																Preservative Codes						
Project Number:	24E-03610	Due Date:																				None: NO	DI Water: H <sub>2</sub> O				
Project Location:		TAT starts the day received by the lab, if received by 4:30pm																				Cool: Cool	MeOH: Me				
Sampler's Name:	R71099																					HCL: HC	HNO <sub>3</sub> : HN				
PO #:	0033																					H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na				
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No																	H <sub>3</sub> PO <sub>4</sub> : HP					
Samples Received Intact:	Yes No	Thermometer ID:																				NaHSO <sub>4</sub> : NABIS					
Cooler Custody Seals:	Yes No N/A	Correction Factor:																				Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>					
Sample Custody Seals:	Yes No N/A	Temperature Reading:																				Zn Acetate+NaOH: Zn					
Total Containers:		Corrected Temperature:																				NaOH+Ascorbic Acid: SANC					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav Comp	# of Cont	Parameters																Sample Comments				
BH24-26	soil	8.28.24	10:40	1		2	X BTEX	X TPH (Gro, Dro, MPO)	X Chloride																		
26			10:44	3																							
27			10:48	4																							
27			10:54	1																							
27			10:54	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 <sub>2</sub> Na Sr Ti 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 Ti U	Hg: 1631 / 245.1 / 7470 / 7471		

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		8:50			









Environment Testing  
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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: Cost Center #: 1082151001,  
Incident #: nAPP2318531816

6067

CC: [chad.hensley@xenco.com](mailto:chad.hensley@xenco.com)  
R Project Avertex Resource.com

www.xenco.com Page 4 of 13

Project Manager: Chad Hensley		Company Name: Vertex Resource Services		Bill to: (if different)		Company Name: DHI	
Address: 3101 Boyd Drive		City, State ZIP: Carlsbad NM, 88220		Address: 355 South 1600 East		Vernal, Utah, 84076	
Phone: 575-361-9639		Email: <a href="mailto:Tgentz@Dahaboldings.com">Tgentz@Dahaboldings.com</a>		Turn Around		ANALYSIS REQUEST	
Project Name: Landfill to SRO line		Due Date: 24E-03618		Pres. Code		Program: UST/PST	
Project Location: Riven 710954		TAT starts the day received by the lab, if received by 4:30pm		Parameters		State of Project: RPP	
Sample Name: 8833		Temp Blank: Yes No		Wet Ice: Yes No		Reporting Level: I	
Samples Received Intact: Yes No		Thermometer ID: Yes No		BTX (8021)		Level III	
Cooler Custody Seals: Yes No		Correction Factor: Yes No		TPH 8015D (GRO / DRO / MRO)		PS/PST	
Sample Custody Seals: Yes No		Temperature Reading: Yes No		Chloride		TRF	
Total Containers: Corrected Temperature:		Depth (ft)		Comp		Leach IV	
Sample Identification		Matrix		Date Sampled		Time	
BH24-32		Soil		8.30.24		12.19	
33		Soil		12.24		4	
33		Soil		12.27		3	
33		Soil		12.33		4	
34		Soil		12.37		4	
34		Soil		12.47		3	
33		Soil		12.53		4	
33		Soil		12.58		3	
33		Soil		1.04		4	
Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM		Texas 11	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA		SD As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Ti 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 \$6 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		Relinquished by: (Signature)	
3		4		6		6	

Revised Date: 09/25/2020 Rev: 2020.7



## 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	



Environment Testing

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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

## 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



Generated  
8/20/2024 5:05:58 PM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto: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

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

## Case Narrative

Client: Vertex  
Project: 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

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## Case Narrative

Client: Vertex  
Project: Landes to SRO Line

Job ID: 890-7015-1

### Job ID: 890-7015-1 (Continued)

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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.

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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 - 01

Lab Sample ID: 890-7015-1

Date Collected: 08/09/24 09:34

Matrix: Solid

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

Date Collected: 08/09/24 09:38

Matrix: Solid

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

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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 - 01

Lab Sample ID: 890-7015-2

Date Collected: 08/09/24 09:38

Matrix: Solid

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

Date Collected: 08/09/24 09:42

Matrix: Solid

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

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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 - 01

Lab Sample ID: 890-7015-3

Date Collected: 08/09/24 09:42

Matrix: Solid

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

Date Collected: 08/09/24 09:45

Matrix: Solid

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

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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 - 01

## Lab Sample ID: 890-7015-4

Date Collected: 08/09/24 09:45

Matrix: Solid

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

Date Collected: 08/09/24 09:54

Matrix: Solid

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

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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 - 02

Lab Sample ID: 890-7015-6

Date Collected: 08/09/24 09:59

Matrix: Solid

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

Date Collected: 08/09/24 10:05

Matrix: Solid

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

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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 - 02

Lab Sample ID: 890-7015-7

Date Collected: 08/09/24 10:05

Matrix: Solid

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

Date Collected: 08/09/24 10:09

Matrix: Solid

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

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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 - 02

Lab Sample ID: 890-7015-8

Date Collected: 08/09/24 10:09

Matrix: Solid

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

Date Collected: 08/09/24 10:12

Matrix: Solid

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

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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 - 03

Lab Sample ID: 890-7015-9

Date Collected: 08/09/24 10:12

Matrix: Solid

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

Date Collected: 08/09/24 10:15

Matrix: Solid

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

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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 - 03

Lab Sample ID: 890-7015-11

Date Collected: 08/09/24 10:20

Matrix: Solid

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

Date Collected: 08/09/24 10:24

Matrix: Solid

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

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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 - 03

Lab Sample ID: 890-7015-12

Date Collected: 08/09/24 10:24

Matrix: Solid

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

Date Collected: 08/09/24 10:29

Matrix: Solid

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

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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 - 04

Lab Sample ID: 890-7015-13

Date Collected: 08/09/24 10:29

Matrix: Solid

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

Date Collected: 08/09/24 10:35

Matrix: Solid

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

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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 - 04

Lab Sample ID: 890-7015-14

Date Collected: 08/09/24 10:35

Matrix: Solid

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

Date Collected: 08/09/24 10:38

Matrix: Solid

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

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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 - 04

Lab Sample ID: 890-7015-16

Date Collected: 08/09/24 10:43

Matrix: Solid

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

Date Collected: 08/09/24 10:47

Matrix: Solid

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

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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 - 05

Lab Sample ID: 890-7015-17

Date Collected: 08/09/24 10:47

Matrix: Solid

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

Date Collected: 08/09/24 10:51

Matrix: Solid

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

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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 - 05

Lab Sample ID: 890-7015-18

Date Collected: 08/09/24 10:51

Matrix: Solid

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

Date Collected: 08/09/24 10:54

Matrix: Solid

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

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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 - 05

Lab Sample ID: 890-7015-19

Date Collected: 08/09/24 10:54

Matrix: Solid

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

Date Collected: 08/09/24 10:57

Matrix: Solid

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

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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 - 06

Lab Sample ID: 890-7015-21

Date Collected: 08/09/24 11:02

Matrix: Solid

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

Date Collected: 08/09/24 11:09

Matrix: Solid

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

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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 - 06

Lab Sample ID: 890-7015-22

Date Collected: 08/09/24 11:09

Matrix: Solid

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

Date Collected: 08/09/24 11:13

Matrix: Solid

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

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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 - 06

Lab Sample ID: 890-7015-23

Date Collected: 08/09/24 11:13

Matrix: Solid

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

Date Collected: 08/09/24 11:17

Matrix: Solid

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

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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 - 06

Lab Sample ID: 890-7015-24

Date Collected: 08/09/24 11:17

Matrix: Solid

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

Date Collected: 08/09/24 11:22

Matrix: Solid

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

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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 - 07

Lab Sample ID: 890-7015-26

Date Collected: 08/09/24 11:25

Matrix: Solid

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 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

Lab Sample ID: 890-7015-27

Date Collected: 08/09/24 11:29

Matrix: Solid

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 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

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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 - 07

Lab Sample ID: 890-7015-27

Date Collected: 08/09/24 11:29

Matrix: Solid

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

Date Collected: 08/09/24 11:34

Matrix: Solid

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

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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 - 07

Lab Sample ID: 890-7015-28

Date Collected: 08/09/24 11:34

Matrix: Solid

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

Date Collected: 08/09/24 11:44

Matrix: Solid

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

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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 - 08

Lab Sample ID: 890-7015-29

Date Collected: 08/09/24 11:44

Matrix: Solid

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

Date Collected: 08/09/24 11:49

Matrix: Solid

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

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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 - 08

Lab Sample ID: 890-7015-31

Date Collected: 08/09/24 11:54

Matrix: Solid

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

Date Collected: 08/09/24 11:59

Matrix: Solid

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

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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 - 08

Lab Sample ID: 890-7015-32

Date Collected: 08/09/24 11:59

Matrix: Solid

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

Date Collected: 08/09/24 12:52

Matrix: Solid

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

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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 - 09

Lab Sample ID: 890-7015-33

Date Collected: 08/09/24 12:52

Matrix: Solid

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

Date Collected: 08/09/24 12:57

Matrix: Solid

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

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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 - 09

Lab Sample ID: 890-7015-34

Date Collected: 08/09/24 12:57

Matrix: Solid

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

Date Collected: 08/09/24 13:02

Matrix: Solid

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

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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 - 09

Lab Sample ID: 890-7015-36

Date Collected: 08/09/24 13:06

Matrix: Solid

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

Date Collected: 08/09/24 13:14

Matrix: Solid

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

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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 - 10

Lab Sample ID: 890-7015-37

Date Collected: 08/09/24 13:14

Matrix: Solid

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

Date Collected: 08/09/24 13:17

Matrix: Solid

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

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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 - 10  
Date Collected: 08/09/24 13:17  
Date Received: 08/13/24 13:38  
Sample Depth: 2

Lab Sample ID: 890-7015-38  
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	<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  
Date Collected: 08/09/24 13:21  
Date Received: 08/13/24 13:38  
Sample Depth: 3

Lab Sample ID: 890-7015-39  
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	-	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	

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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 - 10

Lab Sample ID: 890-7015-39

Date Collected: 08/09/24 13:21

Matrix: Solid

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

Date Collected: 08/09/24 13:24

Matrix: Solid

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

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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: 890-7015-41

Date Collected: 08/09/24 13:30

Matrix: Solid

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

Date Collected: 08/09/24 13:35

Matrix: Solid

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

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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: 890-7015-42

Date Collected: 08/09/24 13:35

Matrix: Solid

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

Date Collected: 08/09/24 13:39

Matrix: Solid

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

Date Collected: 08/09/24 13:39

Matrix: Solid

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

Date Collected: 08/09/24 13:44

Matrix: Solid

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

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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: 890-7015-44

Date Collected: 08/09/24 13:44

Matrix: Solid

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

Date Collected: 08/09/24 13:49

Matrix: Solid

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

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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 - 12

Lab Sample ID: 890-7015-46

Date Collected: 08/09/24 13:54

Matrix: Solid

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

Date Collected: 08/09/24 13:59

Matrix: Solid

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

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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 - 12

Lab Sample ID: 890-7015-47

Date Collected: 08/09/24 13:59

Matrix: Solid

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

Date Collected: 08/09/24 14:03

Matrix: Solid

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

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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 - 12

Lab Sample ID: 890-7015-48

Date Collected: 08/09/24 14:03

Matrix: Solid

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

Date Collected: 08/09/24 14:10

Matrix: Solid

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

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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 - 13

Lab Sample ID: 890-7015-49

Date Collected: 08/09/24 14:10

Matrix: Solid

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

Date Collected: 08/09/24 14:15

Matrix: Solid

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

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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 - 13

Lab Sample ID: 890-7015-51

Date Collected: 08/09/24 14:20

Matrix: Solid

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

Date Collected: 08/09/24 14:24

Matrix: Solid

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

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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 - 13

Lab Sample ID: 890-7015-52

Date Collected: 08/09/24 14:24

Matrix: Solid

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

Date Collected: 08/09/24 14:34

Matrix: Solid

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

Date Collected: 08/09/24 14:34

Matrix: Solid

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

Date Collected: 08/09/24 14:37

Matrix: Solid

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

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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: 890-7015-54

Date Collected: 08/09/24 14:37

Matrix: Solid

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

Date Collected: 08/09/24 14:42

Matrix: Solid

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

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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: 890-7015-56

Date Collected: 08/09/24 14:47

Matrix: Solid

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

Date Collected: 08/09/24 14:53

Matrix: Solid

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

Date Collected: 08/09/24 14:53

Matrix: Solid

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

Date Collected: 08/09/24 14:57

Matrix: Solid

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  
Date Collected: 08/09/24 14:57  
Date Received: 08/13/24 13:38  
Sample Depth: 2

Lab Sample ID: 890-7015-58  
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	<50.3	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  
Date Collected: 08/09/24 15:04  
Date Received: 08/13/24 13:38  
Sample Depth: 3

Lab Sample ID: 890-7015-59  
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		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	

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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: 890-7015-59

Date Collected: 08/09/24 15:04

Matrix: Solid

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

Date Collected: 08/09/24 15:09

Matrix: Solid

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

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## 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	DFBZ1
		(70-130)	(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

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## Surrogate Summary

Client: Vertex

Job ID: 890-7015-1

Project/Site: Landes to SRO Line

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)
890-7015-44	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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	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

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## 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)	
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

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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)
890-7015-59	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

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## 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	%Recovery	MS Qualifier	MS 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	%Recovery	MSD Qualifier	MSD 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	%Recovery	MB Qualifier	MB 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

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## 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

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## 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

	MSD	MSD	
Surrogate	%Recovery	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	MB							
	Result	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	

	MB	MB							
Surrogate	%Recovery	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	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%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		

	LCS	LCS	
Surrogate	%Recovery	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	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	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	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130

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## 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

	LCSD	LCSD	
Surrogate	%Recovery	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

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

	MS	MS	
Surrogate	%Recovery	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

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Benzene	<0.00200	U	0.100	0.1141		mg/Kg		114	70 - 130	12
Toluene	<0.00200	U	0.100	0.1049		mg/Kg		105	70 - 130	15
Ethylbenzene	<0.00200	U	0.100	0.1064		mg/Kg		106	70 - 130	16
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2120		mg/Kg		106	70 - 130	16
o-Xylene	<0.00200	U	0.100	0.1066		mg/Kg		107	70 - 130	15

	MSD	MSD	
Surrogate	%Recovery	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

	MB	MB							
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 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

	MB	MB							
Surrogate	%Recovery	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		

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## 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	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			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		Limits								
	%Recovery	Qualifier									
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**

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	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
	LCSD	LCSD									
Surrogate	%Recovery	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	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			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	MS									
	%Recovery	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**

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	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								

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## 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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -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	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
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	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane	122		70 - 130			08/14/24 11:13	08/14/24 22:18	1
<i>o</i> -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	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	89		70 - 130				
<i>o</i> -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	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	89		70 - 130						
<i>o</i> -Terphenyl	86		70 - 130						

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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

	LCS	LCS	
Surrogate	%Recovery	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	RPD	RPD Limit
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							

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## 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

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## 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  
Matrix: Solid  
Analysis Batch: 88468

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

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  
Matrix: Solid  
Analysis Batch: 88468

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	249.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-7015-21 MS  
Matrix: Solid  
Analysis Batch: 88468

Client Sample ID: BH 24 - 06  
Prep Type: Soluble

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  
Matrix: Solid  
Analysis Batch: 88468

Client Sample ID: BH 24 - 06  
Prep Type: Soluble

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  
Matrix: Solid  
Analysis Batch: 88468

Client Sample ID: BH 24 - 08  
Prep Type: Soluble

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  
Matrix: Solid  
Analysis Batch: 88468

Client Sample ID: BH 24 - 08  
Prep Type: Soluble

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  
Matrix: Solid  
Analysis Batch: 88474

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			08/16/24 03:57	1

Lab Sample ID: LCS 880-88439/2-A  
Matrix: Solid  
Analysis Batch: 88474

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.7		mg/Kg		104	90 - 110

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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	

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## 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

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## 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	

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## 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	

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## 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	

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## 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	

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## 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

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## 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	

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## 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	

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## 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	

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## 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

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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

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## 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

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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 - 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

Lab Sample ID: 890-7015-7

Date Collected: 08/09/24 10:05

Matrix: Solid

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	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

Lab Sample ID: 890-7015-8

Date Collected: 08/09/24 10:09

Matrix: Solid

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			4.99 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

Lab Sample ID: 890-7015-9

Date Collected: 08/09/24 10:12

Matrix: Solid

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	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

Lab Sample ID: 890-7015-10

Date Collected: 08/09/24 10:15

Matrix: Solid

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			5.02 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

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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 - 03

Lab Sample ID: 890-7015-11

Date Collected: 08/09/24 10:20

Matrix: Solid

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	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

Lab Sample ID: 890-7015-12

Date Collected: 08/09/24 10:24

Matrix: Solid

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	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

Lab Sample ID: 890-7015-13

Date Collected: 08/09/24 10:29

Matrix: Solid

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	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

Lab Sample ID: 890-7015-14

Date Collected: 08/09/24 10:35

Matrix: Solid

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	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

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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 - 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

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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 - 05

Lab Sample ID: 890-7015-17

Date Collected: 08/09/24 10:47

Matrix: Solid

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			5.02 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

Lab Sample ID: 890-7015-18

Date Collected: 08/09/24 10:51

Matrix: Solid

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	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

Lab Sample ID: 890-7015-19

Date Collected: 08/09/24 10:54

Matrix: Solid

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			5.04 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

Lab Sample ID: 890-7015-20

Date Collected: 08/09/24 10:57

Matrix: Solid

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			4.97 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

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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 - 06

Lab Sample ID: 890-7015-21

Date Collected: 08/09/24 11:02

Matrix: Solid

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			5.04 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

Lab Sample ID: 890-7015-22

Date Collected: 08/09/24 11:09

Matrix: Solid

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			4.95 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

Lab Sample ID: 890-7015-23

Date Collected: 08/09/24 11:13

Matrix: Solid

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 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

Lab Sample ID: 890-7015-24

Date Collected: 08/09/24 11:17

Matrix: Solid

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 14:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88620	08/15/24 14:22	SM	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 - 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

Lab Sample ID: 890-7015-27

Date Collected: 08/09/24 11:29

Matrix: Solid

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	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

Lab Sample ID: 890-7015-28

Date Collected: 08/09/24 11:34

Matrix: Solid

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 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

Lab Sample ID: 890-7015-29

Date Collected: 08/09/24 11:44

Matrix: Solid

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 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

Lab Sample ID: 890-7015-30

Date Collected: 08/09/24 11:49

Matrix: Solid

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	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

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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 - 08  
Date Collected: 08/09/24 11:54  
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-31  
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			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  
Date Collected: 08/09/24 11:59  
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-32  
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			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  
Date Collected: 08/09/24 12:52  
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-33  
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			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  
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	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

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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 - 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

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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 - 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

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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 - 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

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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 - 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
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  
Date Collected: 08/09/24 14:03  
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-48  
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			5.01 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  
Date Collected: 08/09/24 14:10  
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-49  
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			5.00 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  
Date Collected: 08/09/24 14:15  
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-50  
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	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

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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 - 13  
Date Collected: 08/09/24 14:20  
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-51  
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			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  
Date Collected: 08/09/24 14:24  
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-52  
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			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  
Date Collected: 08/09/24 14:34  
Date Received: 08/13/24 13:38

Lab Sample ID: 890-7015-53  
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			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  
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	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

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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 - 15

Lab Sample ID: 890-7015-57

Date Collected: 08/09/24 14:53

Matrix: Solid

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 07:14	CH	EET MID

Client Sample ID: BH 24 - 15

Lab Sample ID: 890-7015-58

Date Collected: 08/09/24 14:57

Matrix: Solid

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			4.97 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

Lab Sample ID: 890-7015-59

Date Collected: 08/09/24 15:04

Matrix: Solid

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 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

Lab Sample ID: 890-7015-60

Date Collected: 08/09/24 15:09

Matrix: Solid

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 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

Eurofins Carlsbad



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

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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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## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0301  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3  
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-129  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-311

Environment Testing  
Xenco



890-7015 Chain of Custody

Page 1 of 6

Project Manager:	Craig Hensley	Bill to: (if different)	Travis Grentz
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, 84070
Phone:	575-361-9634	Email:	R7rogger@vertex.ca, cHensley@vertexresource.com

SAMPLE RECEIPT		Turn Around		Parameters		ANALYSIS REQUEST		Preservative Codes	
Samples Received Intact:	Yes No	Wet Ice:	Yes No	Thermometer ID:	Correction Factor:	Temperature Reading:	Corrected Temperature:	Sample Identification	Matrix
Cooler Custody Seals: <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>8.1.24</td> </td></td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>8.1.24</td> </td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>8.1.24</td> </td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>8.1.24</td> </td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>8.1.24</td> </td></td></td>	Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>8.1.24</td> </td></td>	Yes No <td>Yes No <td>BH24-01</td> <td>8.1.24</td> </td>	Yes No <td>BH24-01</td> <td>8.1.24</td>	BH24-01	8.1.24
Sample Custody Seals: <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:34</td> </td></td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:34</td> </td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:34</td> </td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:34</td> </td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:34</td> </td></td></td>	Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:34</td> </td></td>	Yes No <td>Yes No <td>BH24-01</td> <td>9:34</td> </td>	Yes No <td>BH24-01</td> <td>9:34</td>	BH24-01	9:34
Total Containers: <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:38</td> </td></td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:38</td> </td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:38</td> </td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:38</td> </td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:38</td> </td></td></td>	Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:38</td> </td></td>	Yes No <td>Yes No <td>BH24-01</td> <td>9:38</td> </td>	Yes No <td>BH24-01</td> <td>9:38</td>	BH24-01	9:38
	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:42</td> </td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:42</td> </td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:42</td> </td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:42</td> </td></td></td>	Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:42</td> </td></td>	Yes No <td>Yes No <td>BH24-01</td> <td>9:42</td> </td>	Yes No <td>BH24-01</td> <td>9:42</td>	BH24-01	9:42
	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:45</td> </td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:45</td> </td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:45</td> </td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:45</td> </td></td></td>	Yes No <td>Yes No <td>Yes No <td>BH24-01</td> <td>9:45</td> </td></td>	Yes No <td>Yes No <td>BH24-01</td> <td>9:45</td> </td>	Yes No <td>BH24-01</td> <td>9:45</td>	BH24-01	9:45
	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>9:54</td> </td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>9:54</td> </td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>9:54</td> </td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>9:54</td> </td></td></td>	Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>9:54</td> </td></td>	Yes No <td>Yes No <td>BH24-02</td> <td>9:54</td> </td>	Yes No <td>BH24-02</td> <td>9:54</td>	BH24-02	9:54
	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>9:59</td> </td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>9:59</td> </td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>9:59</td> </td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>9:59</td> </td></td></td>	Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>9:59</td> </td></td>	Yes No <td>Yes No <td>BH24-02</td> <td>9:59</td> </td>	Yes No <td>BH24-02</td> <td>9:59</td>	BH24-02	9:59
	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>10:05</td> </td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>10:05</td> </td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>10:05</td> </td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>10:05</td> </td></td></td>	Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>10:05</td> </td></td>	Yes No <td>Yes No <td>BH24-02</td> <td>10:05</td> </td>	Yes No <td>BH24-02</td> <td>10:05</td>	BH24-02	10:05
	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>10:09</td> </td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>10:09</td> </td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>10:09</td> </td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>10:09</td> </td></td></td>	Yes No <td>Yes No <td>Yes No <td>BH24-02</td> <td>10:09</td> </td></td>	Yes No <td>Yes No <td>BH24-02</td> <td>10:09</td> </td>	Yes No <td>BH24-02</td> <td>10:09</td>	BH24-02	10:09
	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-03</td> <td>10:12</td> </td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-03</td> <td>10:12</td> </td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-03</td> <td>10:12</td> </td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-03</td> <td>10:12</td> </td></td></td>	Yes No <td>Yes No <td>Yes No <td>BH24-03</td> <td>10:12</td> </td></td>	Yes No <td>Yes No <td>BH24-03</td> <td>10:12</td> </td>	Yes No <td>BH24-03</td> <td>10:12</td>	BH24-03	10:12
	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-03</td> <td>10:15</td> </td></td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-03</td> <td>10:15</td> </td></td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-03</td> <td>10:15</td> </td></td></td></td>	Yes No <td>Yes No <td>Yes No <td>Yes No <td>BH24-03</td> <td>10:15</td> </td></td></td>	Yes No <td>Yes No <td>Yes No <td>BH24-03</td> <td>10:15</td> </td></td>	Yes No <td>Yes No <td>BH24-03</td> <td>10:15</td> </td>	Yes No <td>BH24-03</td> <td>10:15</td>	BH24-03	10:15

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 <sub>2</sub> Na Sr Ti 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 Ti U	Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
1 Riley Ploger	8/13 1358	8/13 1358	
3			
5			

Revised Date: 08/25/2020 Rev. 2020.2



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

Environment Testing  
Xenco

Work Order No: \_\_\_\_\_

www.xenco.com Page 2 of 6

Project Manager:	Chad Hensley	Bill to: (if different)	Travis Gentry
Company Name:	Vertex Resource	Company Name:	DHI
Address:	3101 Boye Dr	Address:	355 South 1000 East
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	Vernal, UT 84076
Phone:	575-361-9639	Email:	

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

ANALYSIS REQUEST				Preservative Codes	
Project Name:	Turn Around	Pres. Code			
Project Number:	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush			None: NO	DI Water: H <sub>2</sub> O
Project Location:	Due Date:			Cool: Cool	MeOH: Me
Sample Name:	TAT starts the day received by the lab, if received by 4:30pm			HCL: HC	HNO <sub>3</sub> : HN
PO #:				H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT				H <sub>3</sub> PO <sub>4</sub> : HP	
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:		NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:		Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:		NaOH+Ascorbic Acid: SAPC	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	# of Cont
BH24-03		8.9.24	10:20	3'	1
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	2'	
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 <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		ICLP / SLP 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)	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
1. R. Faggner	[Signature]	8/13/2024	[Signature]	8/13/2024	
3					
5					

Revised Date: 08/25/2020 Rev. 2020.2

## Chain of Custody

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 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

## Environment Testing

Xenco

**Work Order No:**

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Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/AUST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____

Project Manager:	Chad Hensley	Bill to: (if different)	Travis Grantz
Company Name:	vertex resource	Company Name:	DHI
Address:	3101 Boyle dr	Address:	355 South 1000 East
City, State ZIP:	carlsbad, NM, 88220	City, State ZIP:	vernal, UTah, 84078
Phone:	575-361-9639	Email:	proqer@vertexresource.com cthensley@vertexresource.com

[illegible][illegible]

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[illegible]

Revised Date: 08/25/2020 Rev. 2020 3



## Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

Page 4 of 6  
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**Environment Testing**  
**Xenco**

[illegible]

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	R. T. 10/25/01	[Signature]	8/13 1330	[Signature]		
3						
5						

Received Date: 08/25/2020 Rev. 2020 2



## 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

## Environment Testing

**Xenco**

**Work Order No:**

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Work Order Comments													
Program:		UST/PST	<input type="checkbox"/>	PRP	<input type="checkbox"/>	Brownfields	<input type="checkbox"/>	RRC	<input type="checkbox"/>	Superfund	<input type="checkbox"/>		
State of Project:													
Reporting:		Level I	<input type="checkbox"/>	Level II	<input type="checkbox"/>	Level III	<input type="checkbox"/>	PST/UST	<input type="checkbox"/>	TRRP	<input type="checkbox"/>	Level IV	<input type="checkbox"/>
Deliverables:		EDD	<input type="checkbox"/>	ADaPT		<input type="checkbox"/>	Other:						

Project Manager:	Chad Hensley		Bill to: (if different)	Travis Gentry
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:	vermoy, utah, 84078
Phone:	575-361-9639		Email:	

[illegible][illegible]

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	R Prosser	[Signature]	8/13 1336			
3						

Revised Date: 08/25/2020 Rev 2020 2



## 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

## Environment Testing

**Xenco**

**Work Order No.:** \_\_\_\_\_

Page 6 of 6  
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**Work Order Comments**

Program:    UST/PST ☐    PRP ☐    Brownfields ☐    RRC ☐    Superfund ☐

State of Project:

Reporting:    Level II ☐    Level III ☐    PST/UST ☐    TRRP ☐    Level IV ☐

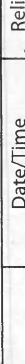
Deliverables:    EDD ☐    ADaPT ☐    Other: \_\_\_\_\_

Project Manager:	Cnrad Hensley		Bill to: (if different)	<del>Dalley Holdings P7</del> Travis Grant
Company Name:	Vertex Resource		Company Name:	DHI
Address:	3101 Bold dr		Address:	355 South 1000 East
City, State ZIP:	Carlsbad, NM, 88220		City, State ZIP:	vernal, UTan, 84078
Phone:	575-361-9134		Email:	

Project Name:		Samples to SRO line		Turn Around		ANALYSIS REQUEST												Preservative Codes											
Project Number:				<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Due Date:														None: NO    DI Water: H <sub>2</sub> O Cool: Cool    MeOH: Me HCL: HC    HNO <sub>3</sub> : HN H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC									
Project Location:		Malaga, NM																											
Sampler's Name:		Riley Trogue																											
PO #:																													
SAMPLE RECEIPT				Temp Blank:		Yes No		Wet Ice:		Yes No		Parameters																	
Samples Received Intact:				Yes No		Yes No		Thermometer ID:		TAT starts the day received by the lab, if received by 4:30pm																			
Cooler Custody Seals:				Yes No		Yes No		Correction Factor:																					
Sample Custody Seals:				Yes No		Yes No		Temperature Reading:																					
Total Containers:				Yes No		Yes No		Corrected Temperature:																					
Sample Identification				Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont														Sample Comments	
BH24-13						0.9.24		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 <sub>2</sub>	Na	Sr	Tl	Sn	V	Zn
<p>TCUP / SPLP 6010 : 8RCRA</p> <p>Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U</p> <p>Hg: 1631 / 2451 / 7470 / 7471</p>																																	

**Notice:** Signature of this document 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 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 service.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	R. Rogers		8/13/13			
3						
4						
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	

## **ATTACHMENT 5 EM Survey Report**



July 30, 2024

Vertex Project #: 24E-03618

DHI

Water Management – Midland, Texas

5909 South Highway 349

Midland, Texas 79706

Attention: Travis Gentz

Re: Electromagnetic Survey Results and Interpretation for DHI Landes to SRO Line

DHI retained Vertex Professional Services Ltd. (Vertex) to conduct an electromagnetic (EM) survey at the DHI Landes to SRO Line (hereafter referred to as the “site”). The site is located approximately 10 miles southwest of Malaga, New Mexico. Vertex personnel conducted the EM survey between July 24 and 27, 2024. This letter reviews the results of the EM survey at the site and discusses the apparent conductivity features that were observed.

## Method

The fixed-frequency EM method was used to map variations in ground conductivity to identify anomalously conductive soils and infer changes in the soil characteristics and composition. This method uses portable instrumentation consisting of a transmitter coil and a receiver coil. A primary magnetic field from the transmitter coil induces subsurface eddy currents, which in turn generate a secondary magnetic field that is intercepted by the receiver coil. The ratio of the primary and secondary magnetic fields is related to ground conductivity.

Ground conductivity is influenced by the following:

- Concentration of total dissolved solids (TDS) within the groundwater
- Soil salinity
- Soil moisture content
- Type of substrate
- Soil grain size (fine-grained clay is more electrically conductive than coarse-grained material such as sand or gravel)
- Soil temperature (conductivity decreases as soil temperature approaches freezing)

Ground conductivity measurements were acquired using the Geonics EM31 Terrain Conductivity Meter. Data were collected continuously along transects spaced approximately 5 to 15 yards apart across the site. Data were logged using a Juniper Systems Archer2 Data Logger with an integrated global positioning system (GPS).

The effective depth of investigation for the EM31, as operated during this investigation, is approximately 5 m (16 ft). The conductivity values are not specific values from discrete depths; they are a cumulative relative contribution of

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DHI  
DHI Landes to SRO Line

EM Survey Results and Interpretation  
July 2024

all the material between the surface and the depth of exploration of the EM field, and are termed 'apparent conductivities'. The apparent conductivity values obtained are in units of millisiemens per meter (mS/m).

## Interpretation

The results of the EM31 survey are presented as an apparent conductivity contour map on Figure 1 (Attachment 1). Apparent conductivity values less than 20 mS/m (blue contours) are possibly representative of background conditions. Elevated apparent conductivity values are between approximately 30 and 75 mS/m (green to red contours). Linear responses (alternating high and low apparent conductivity values) are present along the two eastern-most underground pipelines within the south to north pipeline right-of-way (ROW) and along the west to east underground pipeline in the north portion of the site, and are at least partially attributable to subsurface metal influence. However, the linear responses are not consistent along the length of the pipelines, which may indicate that areas of higher apparent conductivity in proximity to the pipelines are also at least partially attributable to increased TDS and/or increased soil salinity.

At various locations along the south to north ROW, elevated apparent conductivity values extend east beyond the lay flat line. In the south portion of the site, elevated apparent conductivity values extend approximately 250 m (273 yards) east of the ROW; elevated apparent conductivity appears to extend beyond the limits of the survey grid in this area. Elevated apparent conductivity values that are not in immediate proximity to underground pipelines may be attributable to increased TDS and/or increased soil salinity.

If it is determined that the elevated conductivity features coincide with elevated salinity concentrations, an electrical resistivity tomography (ERT) investigation is recommended to determine the vertical extent of the anomalies.

Any subsequent investigations should include areas of apparent background conductivity, as well as potentially impacted areas.

Should you have any questions or concerns, please do not hesitate to contact Laurie Pankratow at 780.464.3295 or [lpankratow@vertex.ca](mailto:lpankratow@vertex.ca).

Sincerely,

Laurie Pankratow, B.Sc., P.Geoph.  
GEOPHYSICIST  
APEGA ID #74205

## Attachments

Attachment 1. Figures

[vertex.ca](http://vertex.ca)

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July 2024

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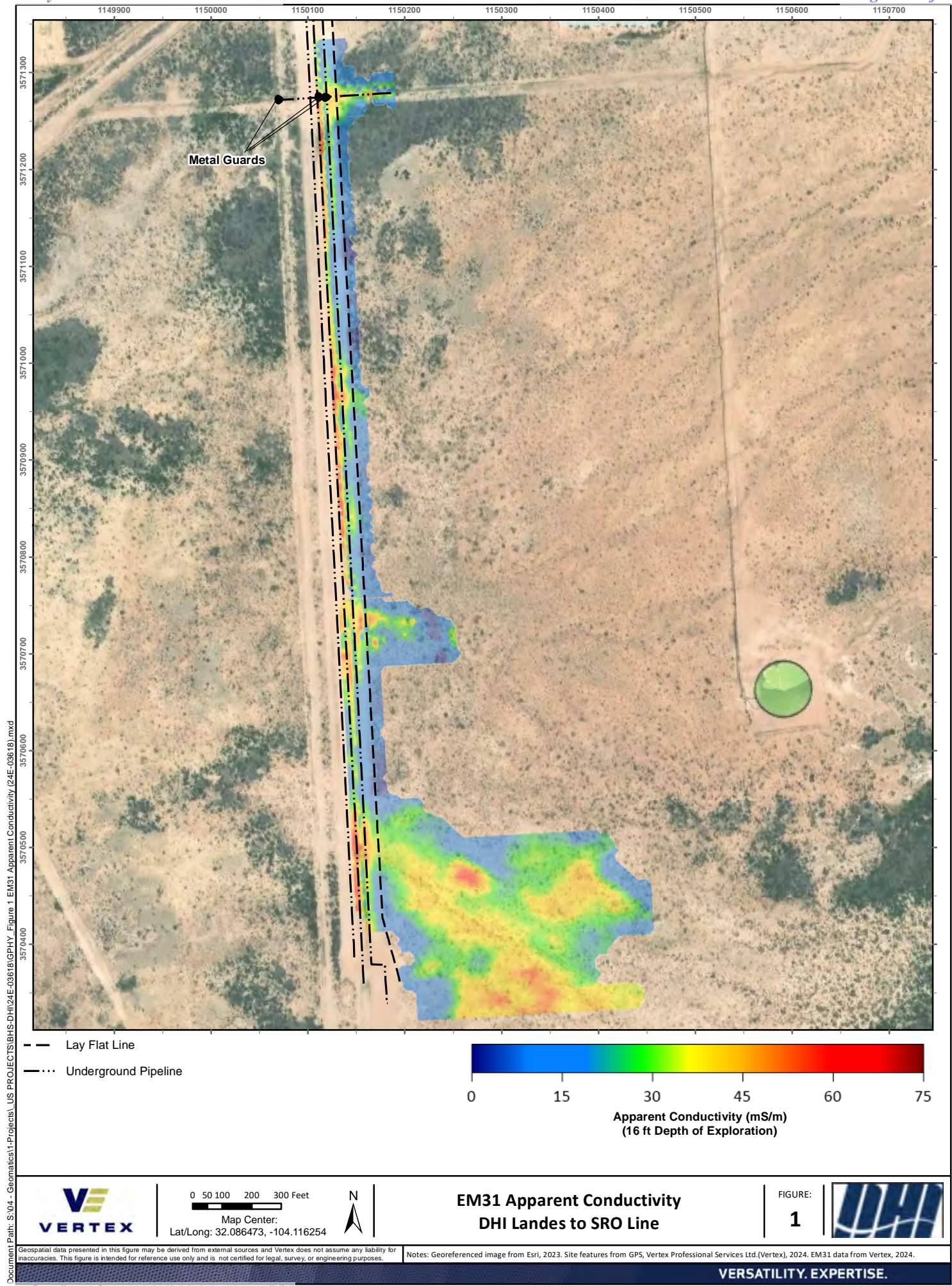
## Limitations

This report has been prepared for the sole benefit of DHI. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Professional Services Ltd. (Vertex) and DHI. 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. Conclusions and recommendations presented in this report should not be considered legal advice.

## **ATTACHMENT 1**





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

QUESTIONS

Action 405985

**QUESTIONS**

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 405985
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2418443905
Incident Name	NAPP2418443905 DHI LANDES TO SRO LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

**Location of Release Source***Please answer all the questions in this group.*

Site Name	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, Page 2

Action 405985

**QUESTIONS (continued)**

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 405985
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
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, Page 3

Action 405985

**QUESTIONS (continued)**

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 405985
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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

<b>Remediation Plan</b>	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (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
<i>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>	
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
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 405985

**QUESTIONS (continued)**

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 405985
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>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.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [FEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>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>	
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: <a href="mailto:julian.romero@ariswater.com">julian.romero@ariswater.com</a> Date: 11/22/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 405985

QUESTIONS (continued)

Operator:  SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:  371643
	Action Number:  405985
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No



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QUESTIONS, Page 6  
  
Action 405985

QUESTIONS (continued)

Operator:  SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:  371643
	Action Number:  405985
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 405985

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 405985
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.	12/4/2024