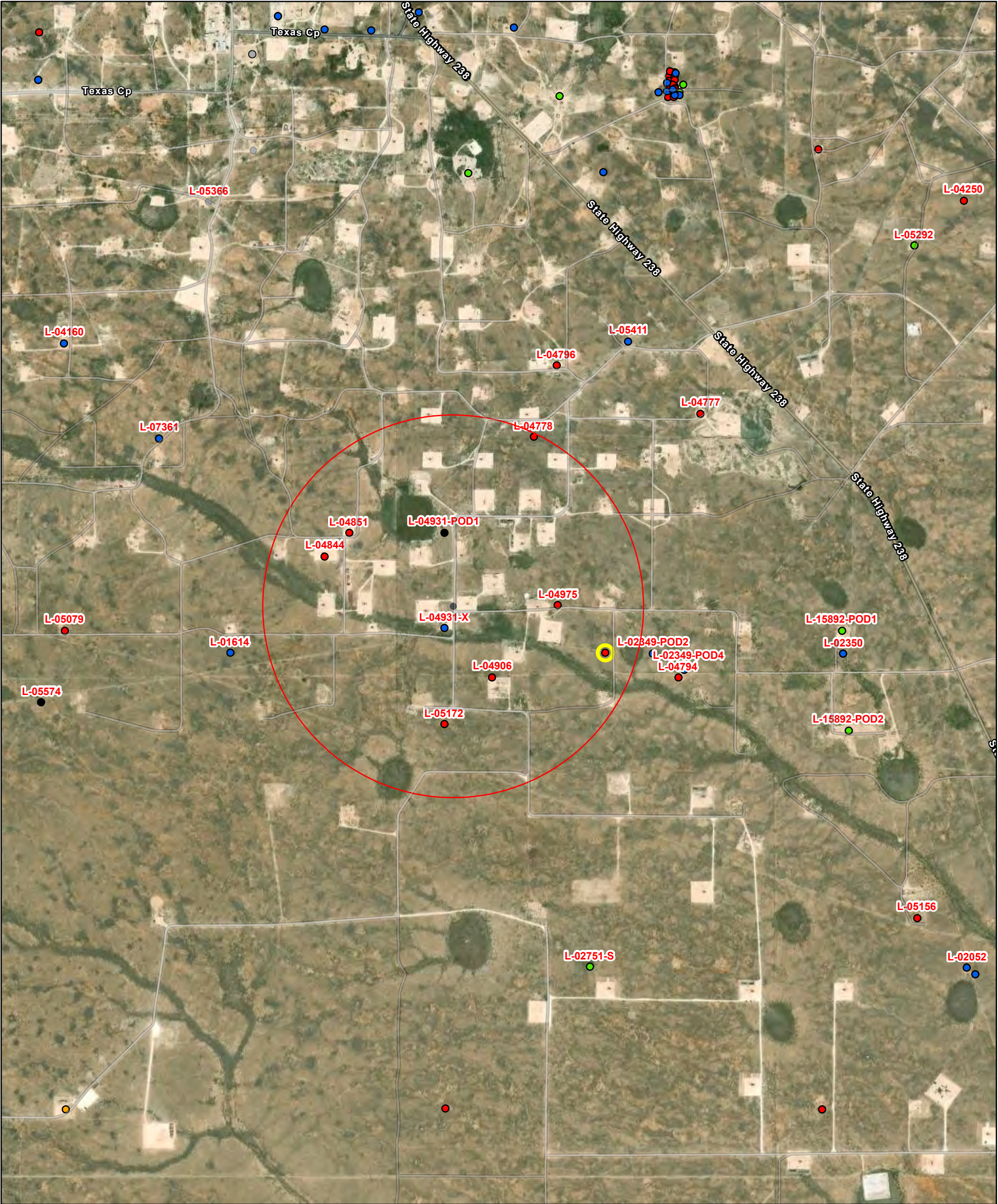


OSE POD 0.5 miles

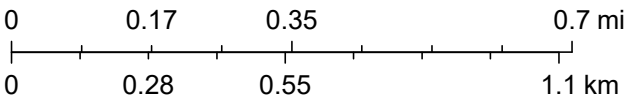


7/3/2025, 6:17:46 PM

GIS WATERS PODs

- Active
- Pending
- Inactive
- Capped
- Plugged
- OSE District Boundary

1:18,056



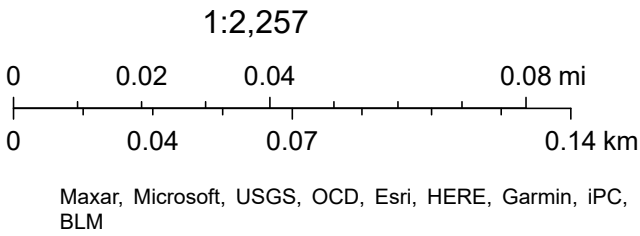
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

USGS 324558103304001, 829 feet



7/5/2025, 6:05:50 AM

- OSE Water PODs
- ▲ USGS Historical GW Wells
- PLSS Second Division
- PLSS First Division



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)	(In feet)	(In feet)	
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column	
L 04931 X		L	LE		NW	SW	07	18S	35E	640208.0	3625735.0 *		99	212	105	107	
L 04906		L	LE			SW	07	18S	35E	640415.0	3625532.0 *		341	155	87	68	
L 04975		L	LE	NE	NE	SW	07	18S	35E	640688.0	3625837.0 *		444	152	105	47	
L 05172		L	LE			SW	SW	07	18S	35E	640214.0	3625331.0 *		497	161	85	76
L 04851		L	LE		SE	NE	12	18S	34E	639801.0	3626130.0 *		536	155	95	60	
L 02349	R	L	LE	SW	NW	SE	07	18S	35E	640891.0	3625641.0 *		673	207	85	122	
L 04778		L	LE		NE	NW	07	18S	35E	640575.0	3626545.0 *		789	150	75	75	
L 02349 POD2		L	LE	SE	NW	SE	07	18S	35E	641091.0	3625641.0 *		867	214	85	129	
L 01614		L	LE	SW	NW	SE	12	18S	34E	639305.0	3625618.0 *		962	204	85	119	
L 04794		L	LE			SE	07	18S	35E	641200.0	3625540.0 *		998	150	95	55	
L 02349 POD3		L	LE	SE	NW	SE	07	18S	35E	641225.0	3625573.6		1013	220	142	78	
L 04796		L	LE	SE	SE	SW	06	18S	35E	640667.0	3626847.0 *		1103	150	95	55	
L 04777		L	LE	NW	NE	NE	07	18S	35E	641279.0	3626653.0 *		1323	145	85	60	
L 05411		L	LE		SW	SE	06	18S	35E	640970.0	3626952.0 *		1338	120	60	60	
L 05139		L	LE		NE	NW	12	18S	34E	638992.0	3626517.0 *		1429	150	95	55	
L 07361		L	LE		NE	NW	12	18S	34E	638992.0	3626517.0 *		1429	202	100	102	
L 05079		L	LE		NW	SW	12	18S	34E	638604.0	3625702.0 *		1644	159	76	83	
L 02350		L	LE	SE	NW	SW	08	18S	35E	641897.0	3625650.0 *		1662	216	105	111	
L 05574	R	L	LE	NW	SW	SW	12	18S	34E	638509.0	3625399.0 *		1787				
L 05523		L	LE	SW	SW	NE	06	18S	35E	640855.0	3627660.0 *		1931	147	85	62	
L 04160		L	LE		SW	SW	01	18S	34E	638585.0	3626911.0 *		1981	165	100	65	

Average Depth to Water: 92 ft

Minimum Depth: 60 feet

Maximum Depth: 142 feet



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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

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Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324558103304001

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 324558103304001 18S.34E.12.12242

Lea County, New Mexico
Latitude 32°46'07", Longitude 103°30'51" NAD27
Land-surface elevation 3,989.00 feet above NGVD29
The depth of the well is 202 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measured
1976-02-13			D	62610	3893.96	NGVD29	1	Z		
1976-02-13			D	62611	3895.51	NAVD88	1	Z		
1976-02-13			D	72019	95.04		1	Z		
1981-03-11			D	62610	3889.22	NGVD29	1	Z		
1981-03-11			D	62611	3890.77	NAVD88	1	Z		
1981-03-11			D	72019	99.78		1	Z		
1986-04-03			D	62610	3882.33	NGVD29	1	Z		
1986-04-03			D	62611	3883.88	NAVD88	1	Z		
1986-04-03			D	72019	106.67		1	Z		
1991-05-23			D	62610	3879.47	NGVD29	1	Z		
1991-05-23			D	62611	3881.02	NAVD88	1	Z		
1991-05-23			D	72019	109.53		1	Z		
1996-02-15			D	62610	3875.05	NGVD29	1	S		
1996-02-15			D	62611	3876.60	NAVD88	1	S		
1996-02-15			D	72019	113.95		1	S		

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2025-07-05 07:17:25 EDT
0.37 0.31 nadww01



02_BLeeState#006_Watercourse_367.7ft



April 23, 2025

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.



03_BLeeState#006_Lake_1018ft



July 14, 2025

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.

04_BLeeState#006

24,118 ft from closest resident

Legend

Buckeye

2 Residents

32.7614, -103.5028

Google Earth

Image © 2025 Airbus

5 km



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)				(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)							(NAD83 UTM in meters)		(meters)		
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	X	Y	Map	Distance
L 04931	L	SRO	486.000	MOBIL PRODUCING TX. & N.M. INC	LE	L 04931 X				Shallow		NW	SW	07	18S	35E	640208.0	3625735.0 *		99.7
					LE	L 04931 POD1	R					SW	NW	07	18S	35E	640202.0	3626138.0 *		312.8
L 04906	L	PRO	0.000	LLANO DRILLING COMPANY	LE	L 04906				Shallow			SW	07	18S	35E	640415.0	3625532.0 *		341.8
L 04975	L	PRO	0.000	HUMBLE OIL & REFINING COMPANY	LE	L 04975				Shallow	NE	NE	SW	07	18S	35E	640688.0	3625837.0 *		444.1
L 05172	L	PRO	0.000	ROWAN DRILLING COMPANY	LE	L 05172				Shallow		SW	SW	07	18S	35E	640214.0	3625331.0 *		497.9
L 04851	L	PRO	0.000	HUMBLE OIL & REFINING COMPANY	LE	L 04851				Shallow		SE	NE	12	18S	34E	639801.0	3626130.0 *		536.1
L 04844	L	PRO	0.000	HUMBLE OIL & REFINING COMPANY	LE	L 04844					SW	SE	NE	12	18S	34E	639700.0	3626029.0 *		579.9
L 02347	L	IND	0.000	NATIONAL POTASH COMPANY	LE	L 02349	R			Shallow	SW	NW	SE	07	18S	35E	640891.0	3625641.0 *		673.5
L 04778	L	PRO	0.000	SHARP DRILLING COMPANY	LE	L 04778				Shallow		NE	NW	07	18S	35E	640575.0	3626545.0 *		789.7
L 02347	L	IND	0.000	NATIONAL POTASH COMPANY	LE	L 02349 POD2				Shallow	SE	NW	SE	07	18S	35E	641091.0	3625641.0 *		867.4
L 02349	L	IND	0.000	FREEPORT SULPHUR COMPANY	LE	L 02349 POD2				Shallow	SE	NW	SE	07	18S	35E	641091.0	3625641.0 *		867.4
L 02675	L	IND	8330.000	INTREPID MINING NM LLC	LE	L 02349 POD2				Shallow	SE	NW	SE	07	18S	35E	641091.0	3625641.0 *		867.4
L 01613	L	IND	0.000	NATIONAL POTASH COMPANY	LE	L 01614				Shallow	SW	NW	SE	12	18S	34E	639305.0	3625618.0 *		962.2
L 01613 A	L	IND	0.000	NATIONAL POTASH COMPANY	LE	L 01614				Shallow	SW	NW	SE	12	18S	34E	639305.0	3625618.0 *		962.2
L 01613 B	L	COM	0.000	NATIONAL POSTASH COMPANY	LE	L 01614				Shallow	SW	NW	SE	12	18S	34E	639305.0	3625618.0 *		962.2
L 01614	L	IND	0.000	FREEPORT SULPHUR CO.	LE	L 01614				Shallow	SW	NW	SE	12	18S	34E	639305.0	3625618.0 *		962.2
L 02675	L	IND	8330.000	INTREPID MINING NM LLC	LE	L 01614				Shallow	SW	NW	SE	12	18S	34E	639305.0	3625618.0 *		962.2
L 04794	L	PRO	0.000	MARCUM DRILLING CO	LE	L 04794				Shallow			SE	07	18S	35E	641200.0	3625540.0 *		998.4
L 02675	L	IND	8330.000	INTREPID MINING NM LLC	LE	L 02349 POD3				Artesian	SE	NW	SE	07	18S	35E	641225.0	3625573.6		1,013.4
					LE	L 02349 POD4	21482				SW	NE	SE	07	18S	35E	641242.0	3625587.0		1,026.7
L 04796	L	PRO	0.000	A W THOMPSON INC	LE	L 04796				Shallow	SE	SE	SW	06	18S	35E	640667.0	3626847.0 *		1,103.3
L 04777	L	PRO	0.000	NOBLE DRILLIN CO	LE	L 04777				Shallow	NW	NE	NE	07	18S	35E	641279.0	3626653.0 *		1,323.6
L 05411	L	PRO	0.000	CAMAY DRILLING COMPANY	LE	L 05411				Shallow		SW	SE	06	18S	35E	640970.0	3626952.0 *		1,338.1
L 05139	L	PRO	0.000	MARCUM DRILLING CO	LE	L 05139				Shallow		NE	NW	12	18S	34E	638992.0	3626517.0 *		1,429.1
L 07361	L	STK	3.000	SCHARBAUER CATTLE COMPANY	LE	L 07361				Shallow		NE	NW	12	18S	34E	638992.0	3626517.0 *		1,429.1
L 02052	L	UTL	1906.000	SOUTHWESTERN PUBLIC SERVICE CO	LE	L 02751 S								18	18S	35E	640844.0	3624320.0 *		1,623.0
L 02751	L	IND	0.000	SOUTHWESTERN PUBLIC SERVICE CO	LE	L 02751 S								18	18S	35E	640844.0	3624320.0 *		1,623.0
L 05079	L	PRO	0.000	YATES DRILLING	LE	L 05079				Shallow		NW	SW	12	18S	34E	638604.0	3625702.0 *		1,644.8
L 15892	L	MON	0.000	BUCKEYE DISPOSAL LLC	LE	L 15892 POD1	NA				SE	NW	SW	08	18S	35E	641888.6	3625748.5		1,646.5
L 02347	L	IND	0.000	NATIONAL POTASH COMPANY	LE	L 02350				Shallow	SE	NW	SW	08	18S	35E	641897.0	3625650.0 *		1,662.6
L 02350	L	IND	0.000	FREEPORT SULPHUR COMPANY	LE	L 02350				Shallow	SE	NW	SW	08	18S	35E	641897.0	3625650.0 *		1,662.6

(R=POD has been replaced and no longer serves this file, C=the file is closed)										(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)							(NAD83 UTM in meters)		(meters)	
WR File Nbr	Sub basin	(acre ft per annum)			County	POD Number	Well Tag			Source	q64	q16	q4	Sec	Tws	Range	X	Y	Map	Distance
		Use	Diversion	Owner				Code	Grant											
L_02675	L	IND	8330.000	INTREPID MINING NM LLC	LE	L_02350				Shallow	SE	NW	SW	08	18S	35E	641897.0	3625650.0 *		1,662.6
L_15892	L	MON	0.000	BUCKEYE DISPOSAL LLC	LE	L_15892 POD2	NA				SE	SW	SW	08	18S	35E	641923.7	3625330.0		1,752.0
L_05574	L	SRO	5.000	TEXACO INC.	LE	L_05574		R		Shallow	NW	SW	SW	12	18S	34E	638509.0	3625399.0 *		1,787.3
L_13951	L	MON	0.000	CHEVRON ENVIRONMENTAL MGT CO	LE	L_13951 POD1					SE	SW	NW	06	18S	35E	640283.9	3627649.9		1,822.3
L_05523	L	STK	3.000	GILES LEE	LE	L_05523				Shallow	SW	SW	NE	06	18S	35E	640855.0	3627660.0 *		1,931.2
L_04160	L	PRO	0.000	GACKLE DRILLING CO	LE	L_04160				Shallow		SW	SW	01	18S	34E	638585.0	3626911.0 *		1,981.2
L_05366	L	OIL	0.000	TEXACO INC.	LE	L_05366								01	18S	34E	639188.0	3627514.0 *		1,989.4

Record Count: 38

Filters Applied:

UTM Filters (in meters):

Easting: 640244

Northing: 3625828

Radius: 002000

Sorted By: Distance

* 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.

7/3/25 6:23 PM MST

Active & Inactive Points of Diversion

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE

quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	L 07361		NE	NW	12	18S	34E	638992.0	3626517.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	99	Driller Company:	O.R. MUSSELWHITE WATER WELL SE		
Driller Name:	MUSSELWHITE, O.R.				
Drill Start Date:	1975-04-11	Drill Finish Date:	1975-04-13	Plug Date:	
Log File Date:	1975-04-21	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	6.63	Depth Well:	202	Depth Water:	100

Water Bearing Stratifications:

Top	Bottom	Description
125	202	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
170	202

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Water Right Summary



[get image](#)
[list](#)

WR File Number:	L 07361	Subbasin:	L	Cross Reference:	
Primary Purpose:	STK 72-12-1 LIVESTOCK WATERING				
Primary Status:	PMT Permit				
Total Acres:		Subfile:		Header:	
Total Diversion:	3.000	Cause/Case:			
Owner:	SCHARBAUER CATTLE COMPANY	Owner Class:	Owner		

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images	512874	72121	1975-04-11	PMT	LOG	L 07361	T		3.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
L 07361		Shallow		NE	NW	12	18S	34E	638992.0	3626517.0 *		

* 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.

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	L 04931 X		NW	SW	07	18S	35E	640208.0	3625735.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	46	Driller Company:	ABBOTT BROTHERS COMPANY		
Driller Name:	MURRELL ABBOTT				
Drill Start Date:	1964-10-05	Drill Finish Date:	1964-10-07	Plug Date:	
Log File Date:	1964-10-15	PCW Rcv Date:	1965-04-07	Source:	Shallow
Pump Type:	TURBIN	Pipe Discharge Size:		Estimated Yield:	
Casing Size:	10.75	Depth Well:	212	Depth Water:	105

Water Bearing Stratifications:

Top	Bottom	Description
105	205	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
105	205

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Water Right Summary


[get image](#)
[list](#)

WR File Number:	L 04931	Subbasin:	L	Cross Reference:	
Primary Purpose:	SRO SECONDARY RECOVERY OF OIL				
Primary Status:	PMT Permit				
Total Acres:	0.000	Subfile:		Header:	
Total Diversion:	486.000	Cause/Case:			
Owner:	MOBIL PRODUCING TX. & N.M. INC	Owner Class:	Owner		

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
 _get images 504001		CLW	1981-03-05	PMT	PCW	L 04931	T	0.000	0.000	
 _get images 504001		CLW	1981-03-05	PMT	PCW	L 04931	F	0.000	0.000	
 _get images 504431		COWNF	1979-12-06	CHG	PRC	L 04931 (ADMIN.)	T	0.000	0.000	
 _get images 503989		CPLA	1978-09-11	PMT	ET	L 04931	T	0.000	0.000	
 _get images 503989		CPLA	1978-09-11	PMT	ET	L 04931	F	0.000	0.000	
 _get images 503979		COWNF	1966-05-31	CHG	PRC	L 04931	T	0.000	0.000	
 _get images 503976		COWNF	1964-09-17	CHG	PRC	L 04931	T	0.000	0.000	
 _get images 503832		APPRO	1962-09-19	PMT	PCW	L 04931	T	0.000	486.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
L 04931		Shallow		NW	NE	05	18S	35E	642561.0	3628183.0 *		
L 04931 X		Shallow		NW	SW	07	18S	35E	640208.0	3625735.0 *		

* UTM location was derived from PLSS - see Help

Priority Summary

Priority	Status	Acres	Diversion	POD Number	Source
1962-07-06	PMT	0.000	486.000	L 04931	Shallow
				L 04931 X	Shallow

Place of Use

Q256	Q64	Q16	Q4	Sec	Tw	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
							0.000	486.000		SRO	1962-07-06	PMT	SEE COMMENTS

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0.000	486.000		SRO	1962-07-06	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.

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

SANTA FE

Section 1. GENERAL INFORMATION

(A) Owner of well Phillips Petroleum Co. Mobil Water Supply
Street or Post Office Address P.O. Box 2130 Owner's Well No. _____
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-4931 and is located in the:
a. _____ ¼ _____ ¼ NW ¼ NE ¼ of Section 5 Township 18S Range 35E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Abbott Bros. Drilling License No. WD-46
Address P.O. Box 637, Hobbs, New Mexico 88240
Drilling Began 2/25/81 Completed 3/7/81 Type tools Cable Size of hole 24 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 237 ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 70 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
110	156	46	Sand	
195	232	37	Sand and gravel	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
12 3/4	22	Welded	0	238	238		137	237

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		4 1/8			
		4 1/8			
		4 1/8			

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

Date Received March 13, 1981 FOR USE OF STATE ENGINEER ONLY
File No. L-4931 Use Quad APPLICATION SRO FWL _____ FSL _____
Location No. 18.35.5.21214

[illegible]

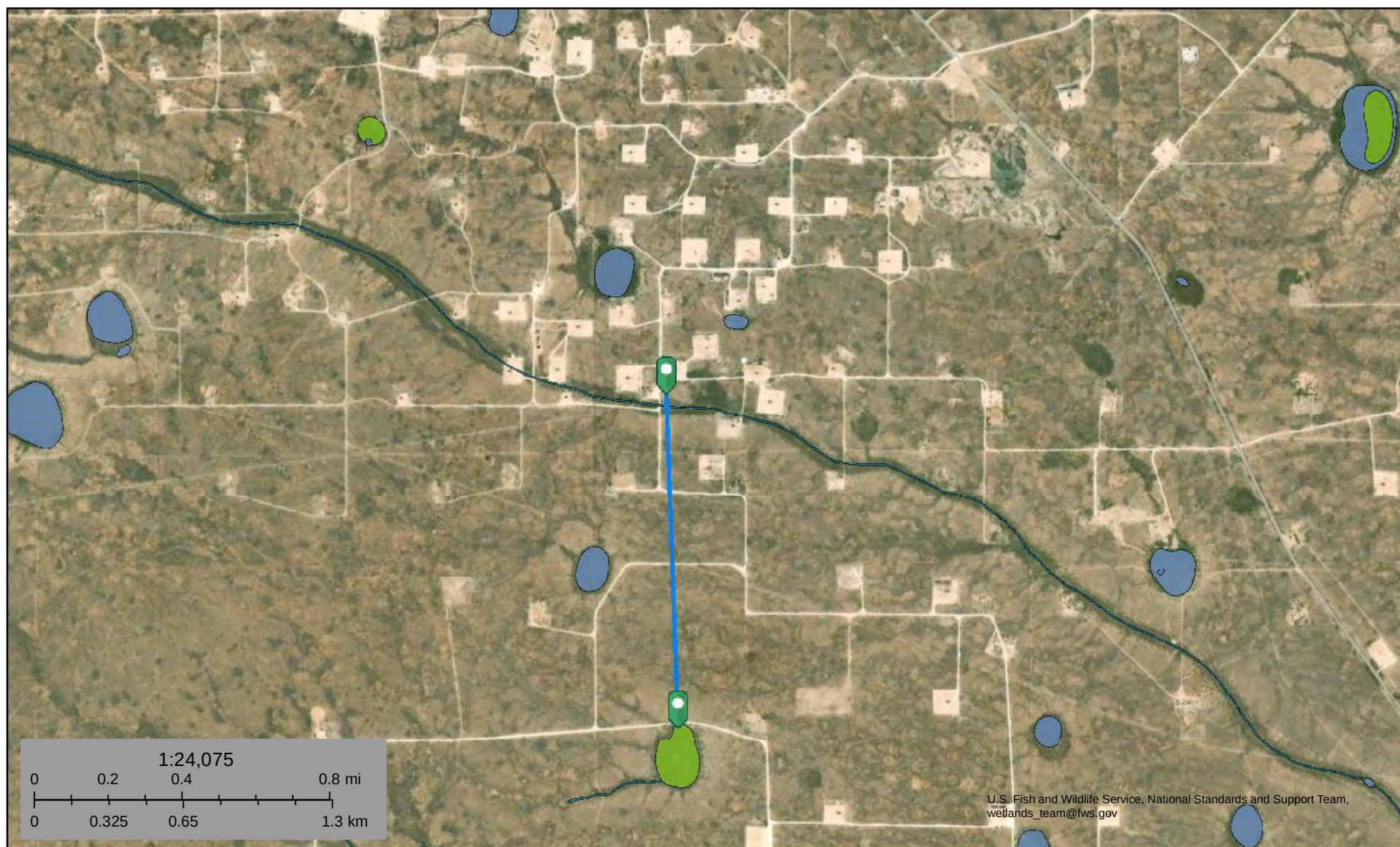
8 31
MAR 13 AM 8 37
ENGINEER OFFICE
STATE ENGINEER OFFICE
ROSWELL, N. M. OFFICE

Murrell Abbott
Driller H.B.

appropriate district office possible when any well is to be completed.



07_BLeeState#006_Wetland_4007.8ft



April 23, 2025

Wetlands

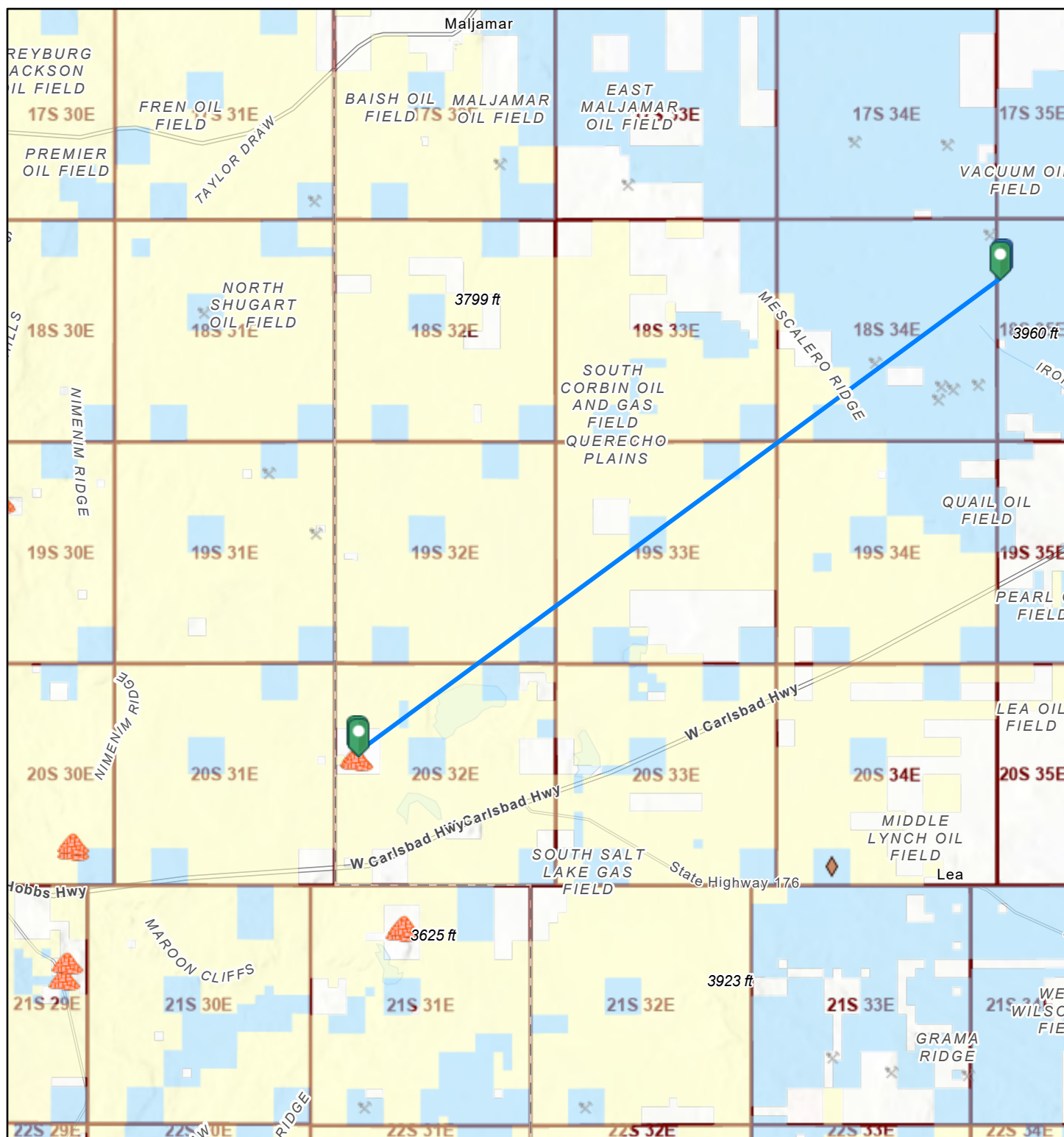
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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.

Active Mines in New Mexico



4/23/2025, 3:20:17 PM

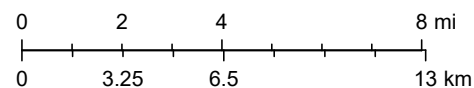
1:288,895

Registered Mines

- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.
- ◆ Industrial Minerals (Other)
- ▲ Potash

Land Ownership

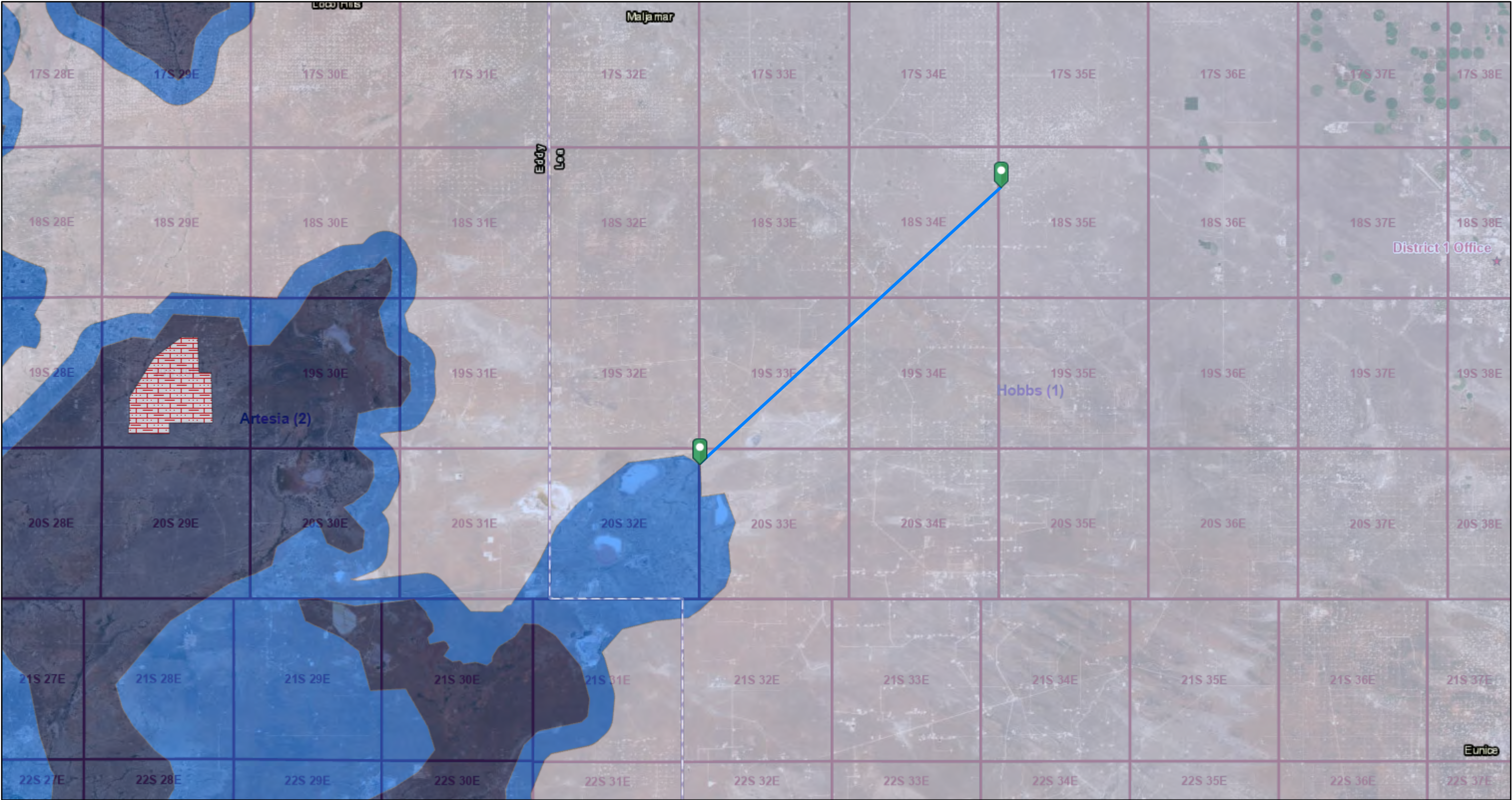
- BLM
- P
- S
- PLSS Townships



U.S. BLM, Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, BLM

EMNRD MMD GIS Coordinator

Medium Karst 86,468 feet



7/3/2025, 5:46:33 PM

1:288,895

Karst Occurrence Potential

Low

High

Medium

★

OCD District Offices

Critical Karst Resource Area

PLSS Townships

OCD Districts

BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Earthstar Geographics, OCD, BLM

Released to Imaging: 8/20/2025 8:31:12 AM

New Mexico Oil Conservation Division
NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

National Flood Hazard Layer FIRMette



103°30'29"W 32°45'56"N



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

1:6,000

103°29'52"W 32°45'26"N

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 Cross Sections with 1% Annual Chance Water Surface Elevation
		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

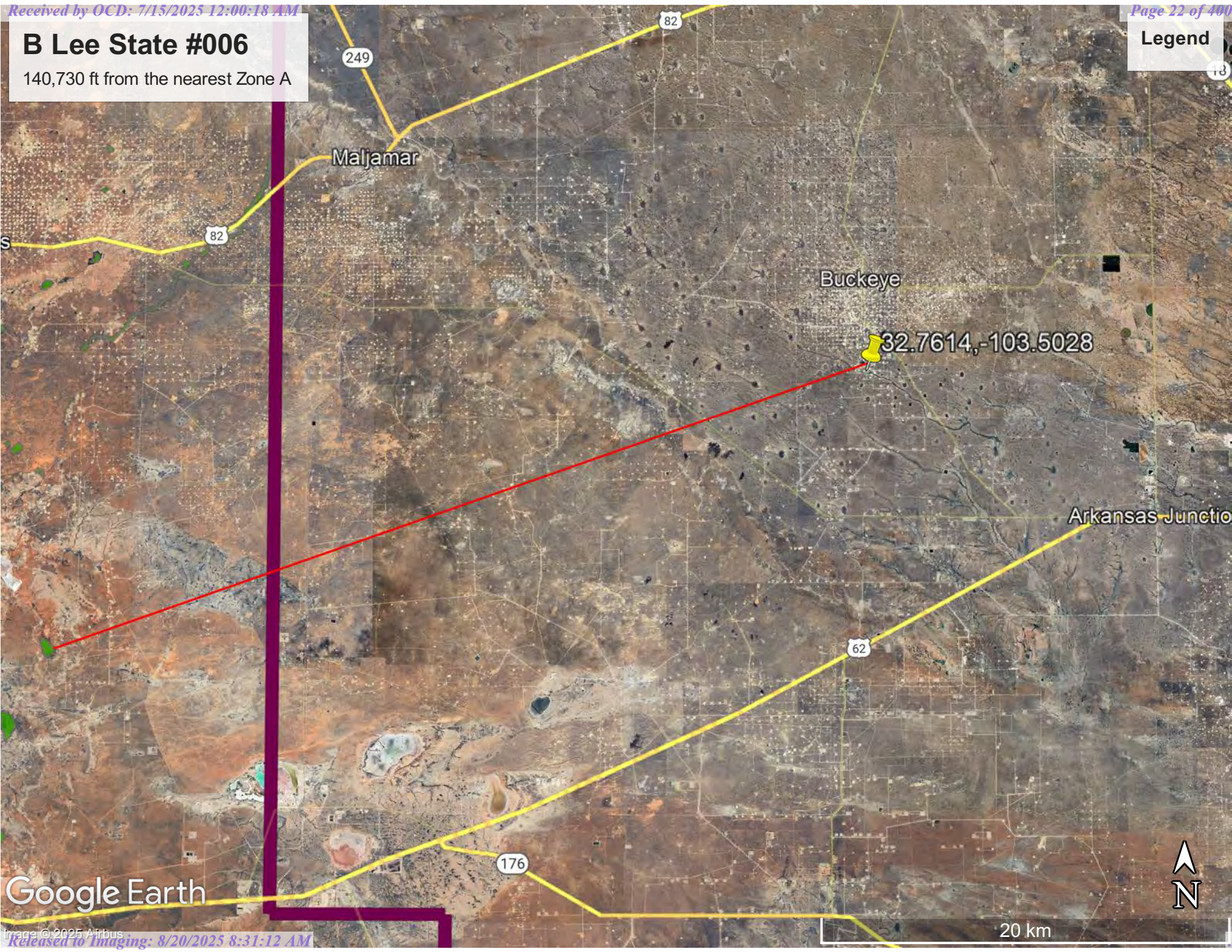
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/23/2025 at 9:42 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by 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.

B Lee State #006

140,730 ft from the nearest Zone A

Legend



Google Earth

20 km





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 **Lea County, New Mexico**



April 23, 2025

Custom Soil Resource Report
Soil Map (B Lee State #006)

Custom Soil Resource Report

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: Lea County, New Mexico
Survey Area Data: Version 21, Sep 3, 2024

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

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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.

Custom Soil Resource Report

Lea County, New Mexico

KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes**Map Unit Setting***National map unit symbol: 2tw43**Elevation: 2,500 to 4,800 feet**Mean annual precipitation: 14 to 16 inches**Mean annual air temperature: 57 to 63 degrees F**Frost-free period: 180 to 220 days**Farmland classification: Not prime farmland***Map Unit Composition***Kimbrough, dry, and similar soils: 80 percent**Minor components: 20 percent**Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Kimbrough, Dry****Setting***Landform: Playa rims, plains**Down-slope shape: Convex, linear**Across-slope shape: Concave, linear**Parent material: Loamy eolian deposits derived from sedimentary rock***Typical profile***A - 0 to 3 inches: gravelly loam**Bw - 3 to 10 inches: loam**Bkkm1 - 10 to 16 inches: cemented material**Bkkm2 - 16 to 80 inches: cemented material***Properties and qualities***Slope: 0 to 3 percent**Depth to restrictive feature: 4 to 18 inches to petrocalcic**Drainage class: Well drained**Runoff class: Very high**Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)**Depth to water table: More than 80 inches**Frequency of flooding: None**Frequency of ponding: None**Calcium carbonate, maximum content: 95 percent**Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)**Sodium adsorption ratio, maximum: 1.0**Available water supply, 0 to 60 inches: Very low (about 1.4 inches)***Interpretive groups***Land capability classification (irrigated): None specified**Land capability classification (nonirrigated): 7s**Hydrologic Soil Group: D**Ecological site: R077DY049TX - Very Shallow 12-17" PZ**Hydric soil rating: No*

Custom Soil Resource Report

Minor Components**Eunice***Percent of map unit: 10 percent**Landform: Plains**Down-slope shape: Linear**Across-slope shape: Convex**Ecological site: R077DY049TX - Very Shallow 12-17" PZ**Hydric soil rating: No***Spraberry***Percent of map unit: 6 percent**Landform: Playa rims, plains**Down-slope shape: Convex, linear**Across-slope shape: Linear**Ecological site: R077DY049TX - Very Shallow 12-17" PZ**Hydric soil rating: No***Kenhill***Percent of map unit: 4 percent**Landform: Plains**Down-slope shape: Linear**Across-slope shape: Linear**Ecological site: R077DY038TX - Clay Loam 12-17" PZ**Hydric soil rating: No***KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes****Map Unit Setting***National map unit symbol: 2tw46**Elevation: 2,500 to 4,800 feet**Mean annual precipitation: 14 to 16 inches**Mean annual air temperature: 57 to 63 degrees F**Frost-free period: 180 to 220 days**Farmland classification: Not prime farmland***Map Unit Composition***Kimbrough and similar soils: 45 percent**Lea and similar soils: 25 percent**Minor components: 30 percent**Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Kimbrough****Setting***Landform: Playa rims, plains**Down-slope shape: Convex, linear**Across-slope shape: Concave, linear**Parent material: Loamy eolian deposits derived from sedimentary rock*

Custom Soil Resource Report

Typical profile

A - 0 to 3 inches: gravelly loam
Bw - 3 to 10 inches: loam
Bkkm1 - 10 to 16 inches: cemented material
Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 95 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Description of Lea**Setting**

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
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: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0

Custom Soil Resource Report

Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ

Hydric soil rating: No

Minor Components**Douro**

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ

Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Kenhill

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Ecological site R077DY049TX Very Shallow 12-17" PZ

Last updated: 9/11/2023

Accessed: 06/25/2025

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.

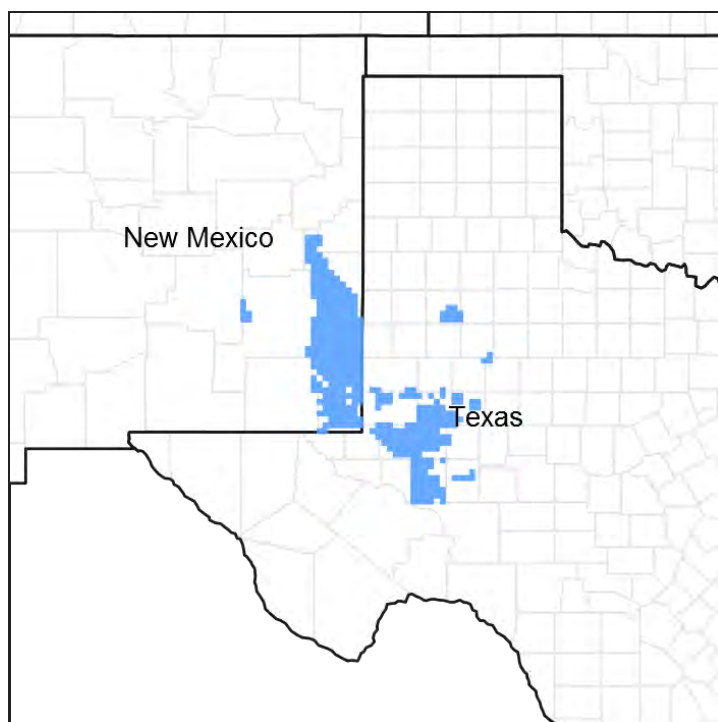


Figure 1. Mapped extent

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.

MLRA notes

Major Land Resource Area (MLRA): 077D—Southern High Plains, Southwestern Part

This MLRA 77D is characterized by nearly level to gently undulating plains with scattered playa depressions. Soil temperature regime is thermic and soil moisture regime is aridic

bordering on ustic. Sandy and loamy soils are generally well drained and range from shallow to deep and medium- to coarse-textured. Native vegetation is short- to midgrasses and sandy sites support tallgrasses with sand shin oak and mesquite. Current land use is mainly rangeland, although irrigated cropland is expanding.

Classification relationships

This ecological site is correlated to soil components at the Major Land Resource Area (MLRA) level which is further described in USDA Ag Handbook 296.

Ecological site concept

These sites occur on very shallow soils on uplands. The reference vegetation consists of shortgrasses with some midgrasses and forbs. Woody species are rarely present in the reference plant community. Abusive grazing practices may lead to a decrease in palatable plants and a shift in the plant community. Woody species may increase in the absence of periodic fire.

Associated sites

R077DY042TX	Limy Upland 12-17" PZ Very shallow sites can be found adjacent to Limy Upland sites, MLRA 77D. The Limy Upland sites will occur as gently undulating soils that occur on broad upland plains. Midgrasses dominate but there is a good mixture of shortgrasses on this site. Production is higher on the Limy Upland sites.
R077DY047TX	Sandy Loam 12-17" PZ Sandy Loam sites, MLRA 77D, can be found adjacent to Very Shallow sites as deeper soils on nearly level plains. Midgrasses dominate but some tallgrasses and shortgrasses can occur on this site. Production is higher on Sandy Loam sites.
R077DY048TX	Shallow 12-17" PZ Shallow sites, MLRA 77D, can be found adjacent to Very Shallow sites as slightly deeper soils on nearly level plains. Midgrasses dominate but a good mixture of shortgrasses occurs on this site. Production is similar between Shallow and Very Shallow sites.
R077DY046TX	Sandy 12-17" PZ Sandy sites, MLRA 77D, can be found adjacent to Very Shallow sites as deeper soils on nearly level plains. Midgrasses dominate but there is a good mixture of tallgrasses on this site. Production is similar on the Sandy sites.

Similar sites

R077DY048TX	Shallow 12-17" PZ Shallow sites, MLRA 77D, will have slightly deeper soils on nearly level plains. Shallow sites have similar vegetation with slightly higher production potential.
-------------	---

R077CY037TX	Very Shallow 16-21" PZ Very Shallow sites, MLRA 77C, have similar forage plant communities with higher production potential due to higher annual precipitation (16 - 21 inches).
R077EY068TX	Very Shallow 16-24" PZ Very Shallow sites, MLRA 77E, have similar forage plant communities with higher production potential due to higher annual precipitation (16 - 24 inches).

Table 1. Dominant plant species

Tree	Not specified
Shrub	(1) <i>Ephedra</i> (2) <i>Acacia greggii</i>
Herbaceous	(1) <i>Bouteloua eriopoda</i> (2) <i>Bouteloua gracilis</i>

Physiographic features

Soils correlated in the MLRA 77D Very Shallow ecological site are very shallow to shallow to a petrocalcic horizon. They were formed in moderately fine textured eolian sediments of the Blackwater Draw Formation of Pleistocene age. These soils are typically on gently sloping plains, narrow ridges, and side slopes along draws. Slope ranges from 0 to 3 percent.

Landforms include Plain, Ridge, and Playa rims.

Table 2. Representative physiographic features

Landforms	(1) Plateau > Plain (2) Plateau > Playa rim (3) Plateau > Ridge
Runoff class	Medium to high
Flooding frequency	None
Ponding frequency	None
Elevation	2,500–4,600 ft
Slope	0–3%
Water table depth	80 in
Aspect	W, NW, N, NE, E, SE, S, SW

Climatic features

Continental Steppe climate is prevalent in MLRA 77D. This climate type is typical of interiors of continents and is characterized by large variations in the magnitude of ranges

in daily temperature extremes, low relative humidity, and irregularly spaced rainfall of moderate amounts. This climate regime is also known for being semi-arid with mild winters.

Droughts occur with monotonous frequency although there will be years having excessive precipitation resulting in large accumulations of water that little benefit is obtained from the rainfall events. If good rains occur in the spring and summer months, annual production will be favorable even if the remainder of the year is not favorable. Most of the annual precipitation occurs as a result from spring and early summer thunderstorms. Due to the fact that the area is mainly flat, local flooding may occur but only of short duration. There is very little precipitation and infrequent snowfall amounts in the winter.

During the late winter and early spring months, dust storms occur very frequently. The flat plains of the area contribute very little resistance to the strong winds. Dust in many of these storms remains in the air for several days after the storms have passed.

Daytime temperatures are warm in the summer but there is a large diurnal range and most nights are comfortable. In summers, the normal daily maximum temperatures are in the low to mid 90s and the normal minimum temperatures are in the upper 60s and low 70s. Even though the temperatures may be high, the low humidity and high evaporation rates create a cooling effect during the nighttime hours. Fall months exhibit extremely variable weather. Winters are mild and are characterized by frequent cold fronts accompanied by strong, gusty, northerly winds. Most of the cold fronts are dry as they pass through the area.

Table 3. Representative climatic features

Frost-free period (characteristic range)	154-191 days
Freeze-free period (characteristic range)	181-194 days
Precipitation total (characteristic range)	15-17 in
Frost-free period (actual range)	147-195 days
Freeze-free period (actual range)	171-213 days
Precipitation total (actual range)	15-17 in
Frost-free period (average)	167 days
Freeze-free period (average)	190 days
Precipitation total (average)	16 in

Climate stations used

- (1) MELROSE [USC00295617], Melrose, NM
- (2) ELIDA [USC00292854], Elida, NM

- (3) CROSSROADS 2 [USC00292207], Crossroads, NM
- (4) CAPROCK [USC00291445], Caprock, NM
- (5) TATUM [USC00298713], Tatum, NM
- (6) HOBBS 13W [USC00294030], Lovington, NM
- (7) ANDREWS [USC00410248], Andrews, TX
- (8) ODESSA SCHLEMEYER FLD [USW00003031], Odessa, TX
- (9) K-BAR RCH [USC00414710], Odessa, TX

Influencing water features

Water features are not an influencing factor in this site.

Wetland description

None.

Soil features

The soils of this site are very shallow, well drained, calcareous, gravelly soils. Permeability is moderate and runoff is low to medium. Parent material is a thin mantle of medium to moderately coarse textured eolian sediments over an indurated layer.

Major Soil Taxonomic Units correlated to this site include: Eunice soils, Kimbrough soils, Simona soils and Spraberry soils.

Table 4. Representative soil features

Parent material	(1) Eolian deposits—igneous, metamorphic and sedimentary rock
Surface texture	(1) Loam (2) Gravelly loam (3) Fine sandy loam (4) Loamy fine sand
Family particle size	(1) Loamy
Drainage class	Well drained
Permeability class	Moderate to rapid
Depth to restrictive layer	4–20 in
Soil depth	4–20 in
Surface fragment cover ≤3"	0–10%
Surface fragment cover >3"	0–10%
Available water capacity (0-20in)	0.5–2 in

Calcium carbonate equivalent (0-20in)	0–60%
Electrical conductivity (0-20in)	0–1 mmhos/cm
Sodium adsorption ratio (0-20in)	0–1
Soil reaction (1:1 water) (0-20in)	6.6–8.4
Subsurface fragment volume ≤3" (0-20in)	0–60%
Subsurface fragment volume >3" (0-20in)	0–3%

Ecological dynamics

The Reference Plant Community of the Very Shallow Ecological Site is a Shortgrass/Midgrass Community (1.1). Few if any tallgrass species will be found. Grass species account for 85 percent of the total site production. A wide variety of forbs are produced on this site producing 15 percent of the total annual production. Only trace amounts of woody shrubs will be found. This site occupies flat to moderately sloping upland areas. Slopes typically range from 1 to 12 percent. These are shallow to very shallow loam to fine sandy loam soils with a depth of 4 to 20 inches that are underlain by indurated caliche or soft caliche.

The dominant shortgrass species are black grama (*Bouteloua eriopoda*) and blue grama (*Bouteloua gracilis*), with lesser amounts of buffalograss (*Bouteloua dactyloides*), Wright threeawn (*Aristida wrightii*), hairy grama (*Bouteloua hirsuta*), and fall witchgrass (*Digitaria cognata*). The dominant midgrass species are sideoats grama (*Bouteloua curtipendula*), little bluestem (*Schizachyrium scoparium*), plains bristlegrass (*Setaria macrostachya*), Arizona cottontop (*Digitaria californica*), tobosagrass (*Pleuraphis mutica*), slim tridens (*Tridens muticus*), and lesser amounts of sand dropseed (*Sporobolus cryptandrus*) and Reverchon bristlegrass (*Setaria reverchonii*). A good variety of forbs exist but the amount varies greatly from year to year depending on moisture. The more commonly found forbs are dotted gayfeather (*Liatris punctata*), white prairie clover (*Dalea albiflora*), gaura spp. (*Gaura* spp.), bush sunflower (*Simsia calva*), orange zexmania (*Zexmania hispida*), trailing ratany (*Krameria lanceolata*), Oenothera spp. (*Oenothera* spp.), and rock daisy (*Perityle* spp.). The few shrubs that may be found on this site were feather dalea (*Dalea Formosa*), catclaw acacia (*Acacia greggii*), and vine ephedra (*Ephedra antisiphilitica*).

Fire plays a role in the ecology of this site as well as most other high plains sites. The general role of fire is to sustain the natural grassland and suppress shrubby species. Fire has helped to keep a balance between the grasses, forbs and shrubs. However, in the

shortgrass region, fire is probably secondary to climate in promoting the historic vegetative state. A drier climate (<20 inches annual precipitation) creates a situation where the subsoil is dry more often than it is wet. Plant roots grow in response to moisture and this dryer climate favors shortgrasses with fibrous root systems or short rhizomatous grasses. Annual forbs are stimulated by fire and diversity is generally increased. Heavy grazing after a fire can have a negative effect if conditions are dry and remain so for an extended period.

Periodic grazing and trampling by migrating herds of bison and elk as well as resident herds of pronghorn antelope occurred during drought periods. Bison moved about in large herds over the region somewhat regulated by water sources and fire frequency. However, long rest periods followed once the large herds of bison moved out of the area, allowing the resilient grassland to re-establish and maintain its structure.

Variations in climatic factors, especially the amount and timing of precipitation, greatly influence the productivity of ecological sites and are largely responsible for the fluctuations in the amount of vegetative growth from one season to the next. It is not unusual for fluctuations of greater than 50 percent to occur from one year to another. These types of climatic variation are part of the overall environment in which the reference plant community developed. However, it needs to be pointed out that long-term drought (4 to 6 years of rainfall, 50 percent below the mean) can act in concert with other forces to affect changes in plant communities. For instance, extended drought weakens plants and makes them more susceptible to the effects of overgrazing. Drought conditions coupled with fire can be damaging and need long periods of time to fully recover. Extremely dry summers followed by wet winters can favor cool-season annual grasses at the expense of perennial warm-season species. A well-adapted, healthy community could better withstand such rigors of drought. However, even the reference community can experience damage that would result in some departure from the former stable state. Usually, the departure would be temporary.

When domestic livestock were brought to the plains in the 1870's, it was largely an open range situation. By 1890, however, most of the area had been fenced and livestock were confined to these areas continually. Not understanding the limits of rangeland productivity, European settlers almost universally overstocked the area with domesticated livestock. As overgrazing occurred on this site, there was a reduction of the less grazing resistant midgrass species, a decline in mulch and organic matter, and consequently a reduction in intensity and frequency of fires. The shift in plant cover to less palatable shortgrass species and the decline in soil cover, favors woody plant encroachment.

With abusive grazing, no fire, no brush management and/or pest management this site will transition to the Shortgrass/Shrub Community (1.2). As livestock and wildlife numbers increase and grazing use exceeds a plants ability to sustain defoliation, the more palatable and generally more productive species decline in stature, productivity and density. The tendency of this site is to become a shortgrass dominant site if long-term grazing abuse occurs. This will lead to a decline in sideoats grama, blue grama and other

palatable grass species. Black grama, dropseeds and tobosa will increase with an increase of hairy tridens (*Erioneuron pilosum*), and burrograss (*Scleropogon brevifolius*). Catclaw acacia will increase along with an invasion of broom snakeweed (*Gutierrezia sarothrae*), and mesquite (*Prosopis glandulosa*). The production of vegetation has shifted from mostly herbaceous vegetation to increasing amounts of woody shrubs. Herbaceous vegetation is still the largest production in this state. Nutrient cycling, the water cycle, watershed protection and biological functions have changed somewhat. This state can transition back to reference with good management practices such as prescribed grazing, brush management and pest management. In this state it is unlikely that prescribed burning could be used due to the limited fuel load and poor continuity to carry a fire.

If long-term, abusive grazing continues with no fire or any form of brush and pest management, a major threshold will be crossed to the Shrub/Shortgrass Community (2.1). In this state, mesquite, broom snakeweed and catclaw acacia will dominate the site. The typical shortgrass species will be perennial threeawns, hairy tridens and other invading low quality short grasses. Bare areas will increase with annuals filling the voids.

The loss of herbaceous cover and increased bare soil encourages accelerated erosion. Nutrient cycling, the water cycle, watershed protection and biological functions have been severely reduced.

The plant community is so degraded that it cannot reverse retrogression without extensive energy and management inputs. Prescribed grazing with rest periods during the growing season, re-seeding with adapted native grass species, chemical and/or mechanical brush management, and some form of pest management will be required to return this state back to reference. With the reduced amounts of grass fuel, poor continuity and increased bare soil, prescribed burning will not be an option in this state.

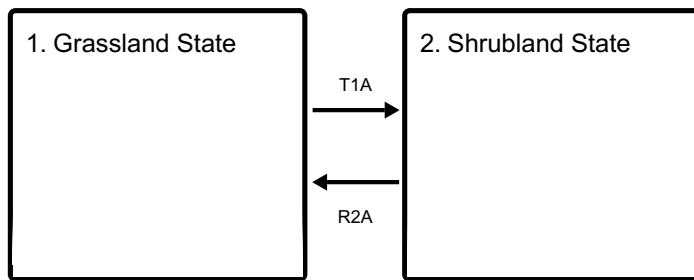
NOTE: Rangeland Health Reference Worksheets have been posted for this site on the Texas NRCS website (www.tx.nrcs.usda.gov) in Section II of the eFOTG under (F) Ecological Site Descriptions.

STATE AND TRANSITIONAL PATHWAYS: (DIAGRAM)

Narrative:

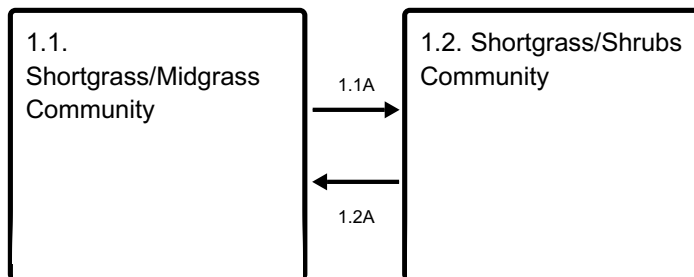
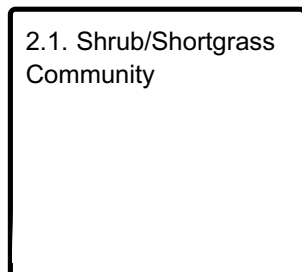
The following diagram suggests some pathways that the vegetation on this site might take. There may be other states not shown on the diagram. This information is intended to show what might happen in a given set of circumstances; it does not mean that this would happen the same way in every instance. Local professional guidance should always be sought before pursuing a treatment scenario.

State and transition model

Ecosystem states

T1A - Absence of disturbance and natural regeneration over time, may be coupled with excessive grazing pressure

R2A - Adequate rest from defoliation and removal of woody canopy, followed by reintroduction of historic disturbance regimes

State 1 submodel, plant communities**State 2 submodel, plant communities****State 1
Grassland State**

The Reference Plant Community was a Shortgrass/Midgrass Community (1.1). Few if any tallgrass species will be found. Grass species account for 85 percent of the total site production. A wide variety of forbs are produced on this site producing 15 percent of the total annual production and only trace amounts of woody shrubs will be found. With continuous heavy grazing, no fire, no brush management and/or pest management this site will transition to the Shortgrass/Shrub Community (1.2). As livestock and wildlife numbers increase and grazing use exceeds a plants ability to sustain defoliation, the more palatable and generally more productive species decline in stature, productivity and density. The tendency of this site is to become a shortgrass dominant site if long-term grazing abuse occurs. This will lead to a decline in sideoats grama, blue grama and other palatable grass species.

Dominant plant species

- black grama (*Bouteloua eriopoda*), grass
- blue grama (*Bouteloua gracilis*), grass

Community 1.1

Shortgrass/Midgrass Community



Figure 8. 1.1 Shortgrass/Midgrass Community

The Reference Plant Community of the Very Shallow Ecological Site is a Shortgrass/Midgrass Plant Community (1.1). Few if any tallgrass species will be found. Grass species account for 85 percent of the total site production. A wide variety of forbs are produced on this site producing 15 percent of the total annual production. Only trace amounts of woody shrubs will be found. The dominant shortgrass species are black grama and blue grama. Sideoats grama is the primary midgrass species. As overgrazing occurs on this site, there will be a reduction of the less grazing resistant midgrass species, a decline in mulch and organic matter, and consequently a reduction in intensity and frequency of fires. The shift in plant cover to less palatable shortgrass species and the decline in soil cover, favors woody plant encroachment. Proper grazing use, periodic brush and pest management and prescribed burning are required to maintain this community phase.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	285	618	950
Forb	15	32	50
Shrub/Vine	0	0	1
Tree	0	0	0
Microbiotic Crusts	0	0	0
Total	300	650	1001

Figure 10. Plant community growth curve (percent production by month).
TX1251, Warm-season bunchgrasses w/ forbs & shrubs. Warm-season
bunchgrasses with forbs and shrubs..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1	3	5	12	16	15	20	18	9	1	0

Community 1.2

Shortgrass/Shrubs Community



Figure 11. 1.2 Shortgrass/Shrubs Community

With continuous heavy grazing, no fire, no brush management and/or pest management this site will transition from to the Shortgrass/Shrub Community (1.2). As livestock and wildlife numbers increase and grazing use exceeds a plants ability to sustain defoliation, the more palatable and generally more productive species decline in stature, productivity and density. The tendency of this site is to become a shortgrass dominant site if long-term grazing abuse occurs. This will lead to a decline in sideoats grama, blue grama and other palatable grass species. Black grama, dropseeds and tobosa will increase with an invasion of hairy tridens, and burrograss. Catclaw acacia will increase along with an invasion of

broom snakeweed, and mesquite. The production of vegetation has shifted from mostly herbaceous vegetation to increasing amounts of woody shrubs. Herbaceous vegetation is still the largest production in this state. This state can shift back to the reference community with good management practices such as prescribed grazing, brush management and pest management. In this state it is unlikely that prescribed burning could be used due to the limited fuel load and poor continuity to carry a fire.

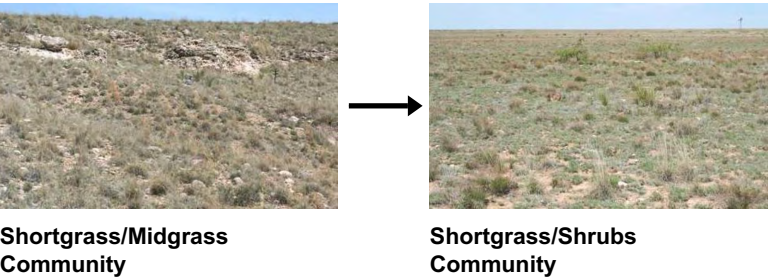
Table 6. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	200	350	500
Shrub/Vine	200	300	400
Forb	40	70	100
Microbiotic Crusts	0	0	0
Tree	0	0	0
Total	440	720	1000

Figure 13. Plant community growth curve (percent production by month). TX1252, Shortgrass Dominant/Invading Shrub Community. Warm-season shortgrasses with increasing shrubs and forbs..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1	3	5	12	16	15	20	18	9	1	0

Pathway 1.1A
Community 1.1 to 1.2



With continuous heavy grazing, no fire, no brush management and/or pest management this site will transition to the Shortgrass/Shrub Community (1.2). As livestock and wildlife numbers increase and grazing use exceeds a plants ability to sustain defoliation, the more palatable and generally more productive species decline in stature, productivity and density.

Pathway 1.2A
Community 1.2 to 1.1



**Shortgrass/Shrubs
Community**



**Shortgrass/Midgrass
Community**

This state can transition back the reference community with good management practices such as prescribed grazing, brush management and pest management.

Conservation practices

Brush Management
Integrated Pest Management (IPM)
Prescribed Grazing

State 2 Shrubland State

A major threshold will be crossed from the Grassland State (1.0) to the Shrubland State (2.0). In this state, mesquite, shrubs such as broom snakeweed and catclaw acacia will dominate the site. The typical shortgrass species will be perennial threeawns, hairy tridens and other invading low quality short grasses. Bare areas will increase with annuals filling the voids. The loss of herbaceous cover and increased bare soil encourages accelerated erosion, especially on sites with steeper slopes.

Dominant plant species

- broom snakeweed (*Gutierrezia sarothrae*), shrub
- catclaw acacia (*Acacia greggii*), shrub
- honey mesquite (*Prosopis glandulosa*), shrub

Community 2.1 Shrub/Shortgrass Community



Figure 14. 2.1 Shrub/Shortgrass Community

If long-term, heavy grazing continues with no fire or any form of brush and pest management, a major threshold will be crossed to the Shrub/Shortgrass Community (2.1). In this state, mesquite, broom snakeweed and catclaw acacia will dominate the site. The typical shortgrass species will be perennial threeawns, hairy tridens and other invading low quality short grasses. Bare areas will increase with annuals filling the voids. The loss of herbaceous cover and increased bare soil encourages accelerated erosion, especially on sites with steeper slopes. Nutrient cycling, the water cycle, watershed protection and biological functions have been severely reduced. The plant community is so degraded that it cannot reverse retrogression without extensive energy and management inputs. Prescribed grazing with rest periods during the growing season, re-seeding with adapted native grass species, chemical and/or mechanical brush management, and some form of pest management will be required to return this state back to the reference state. With the reduced amounts of grass fuel, poor continuity and increased bare soil, prescribed burning will not be an option in this state.

Table 7. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Shrub/Vine	400	500	600
Grass/Grasslike	100	200	300
Forb	20	40	60
Microbiotic Crusts	0	0	0
Tree	0	0	0
Total	520	740	960

Figure 16. Plant community growth curve (percent production by month). TX1254, Shrub/Shortgrass/Annuals Community. Spring and fall growth of shortgrasses, annuals, and shrubs..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1	4	6	10	16	15	20	15	12	1	0

Transition T1A

State 1 to 2

If long-term, heavy grazing continues with no fire or any form of brush and pest management, a major threshold will be crossed to the Shrub/Shortgrass Community (2.1). In this state, mesquite, broom snakeweed and catclaw acacia will dominate the site. Bare areas will increase with annuals filling the voids.

Restoration pathway R2A

State 2 to 1

Prescribed grazing with rest periods during the growing season, re-seeding with adapted native grass species, chemical and/or mechanical brush management, and some form of pest management will be required to return this state back the reference. With the reduced amounts of grass fuel, poor continuity and increased bare soil, prescribed burning will not be an option in this state.

Conservation practices

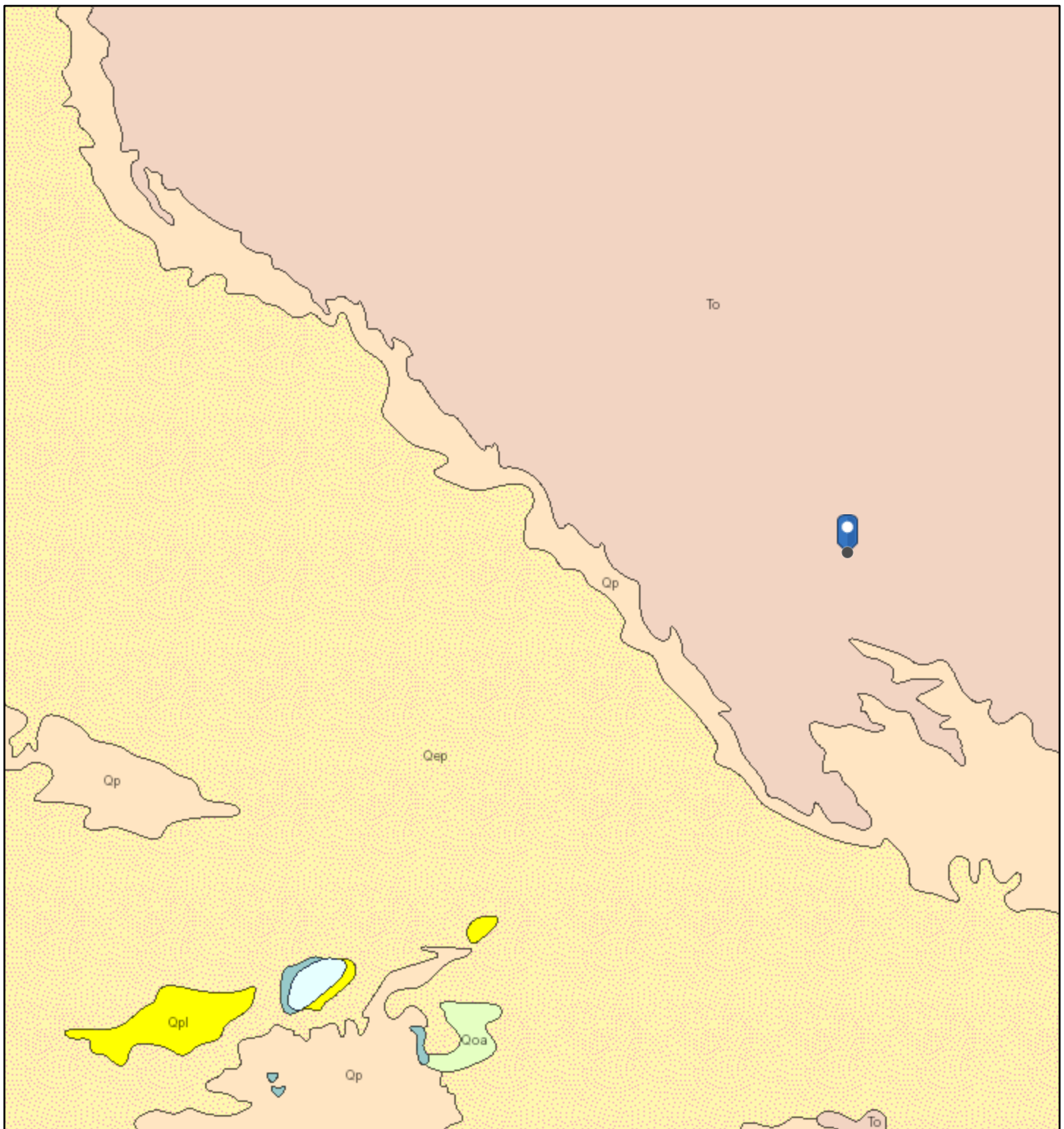
Brush Management
Range Planting
Integrated Pest Management (IPM)
Prescribed Grazing

Additional community tables

Table 8. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	Shortgrasses			105–350	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	75–250	—
	blue grama	BOGR2	<i>Bouteloua gracilis</i>	30–100	—
2	Midgrasses			135–450	
	sideoats grama	BOCU	<i>Bouteloua curtipendula</i>	30–100	—
	little bluestem	SCSC	<i>Schizachyrium scoparium</i>	30–100	—

B Lee State #006 Geologic Map

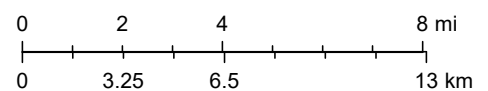


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Lithologic Units

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



Esri, NASA, NGA, USGS, 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 Road data;

ArcGIS Web AppBuilder



Incident Number: NAPP2510568312

Release Assessment and Closure

B Lee State #006

Unit L, Section 07, Township 18 South, Range 35 East

API: 30-025-39673

County: Lea

Vertex File Number: 25A-01934

Prepared for:

Mack Energy Corporation

Prepared by:

Vertex Resource Services Inc.

Date:

July 2025

Release Assessment and Closure

B Lee State #006

Unit L, Section 07, Township 18 South, Range 35

API: 30-025-39673

County: Lea

Prepared for:

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ENVIRONMENTAL TECHNICIAN, REPORTING

July 10, 2025

Date

Sally Carttar

Sally Carttar, BA

PROJECT MANAGER, REPORT REVIEW

July 11, 2025

Date

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Appendix A. NMOCD C-141 Report

Appendix B. Closure Criteria Research Documentation

Appendix C. Daily Field Reports

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1.0 Introduction

Mack Energy Corporation (Mack) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a crude oil release that occurred on April 15, 2025, at B Lee State #006 API 30-025-39673 (hereafter referred to as the "site"). Mack submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 1 on April 15, 2025. Incident ID number nAPP2510568312 was assigned to this incident.

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

2.0 Incident Description

The release occurred April 15, 2025, due to a corroded production flowline. The incident was reported on April 15, 2025, and involved the release of approximately 15 barrels (bbl) of crude oil off the pad site. Approximately 2 bbl of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 13.3 miles southwest of Lovington, New Mexico. The legal location for the site is Unit L, Section 07, Township 18 South, Range 35 East in Lea County, New Mexico. The release area is located on State property. An aerial photograph and site schematic are presented on Figure 1.

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

The surrounding landscape is associated with playa rims, plains with elevations ranging between 2,500 and 4,800 feet. The climate is semiarid with average annual precipitation ranging between 14 and 16 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses with woody shrubs. Grasses with shrubs and half-shrubs dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

The surface geology at the site primarily comprises To – Ogalla Formation (Lower Pliocene to Middle Miocene), and is characterized as alluvial and eolian deposits, and petrocalcic soils of the southern High Plains (New Mexico Bureau of Geology and Mineral Resources, 2025). The soil at the site is characterized as Ko-Kimbrough gravelly loam, dry, 0 to 3 percent slopes (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Additional soil characteristics include a drainage class of well drained with a runoff class of very high. The karst geology potential for the site is low.

4.0 Closure Criteria Determination

The nearest active well to the site is used for secondary recovery of oil and is located 327 feet to the south. There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 367 feet south of the site (United States Fish and Wildlife Service, 2025). At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC

The nearest depth to groundwater reference to the site is United States Geological Survey (USGS) monitoring well located 829 feet to the southwest. The most recent depth to groundwater measurement at USGS well 324558103304001 was 113 feet below ground surface (bgs) on February 15, 1996 (United States Geological Survey, 2025). Information pertaining to the depth to ground water determination is included in Appendix B.

Table 1. Closure Criteria Determination			
Site Name: B Lee State #006			
Spill Coordinates: 32.7614,-103.5028		X: 640244	Y: 3625828
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	113	feet
	Distance between release and nearest DTGW reference	829	feet
		0.16	miles
	Date of nearest DTGW reference measurement	February 15, 1996	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	367	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	1,018	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	24,117	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	4,688	feet
	ii) Within 1000 feet of any fresh water well or spring	327	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	4,007	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	114,985	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest High Karst	130,000	feet
10	Within a 100-year Floodplain	Undetermined	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	140,730	feet
11	Soil Type	Gravelly loam, loam, cemented material	
12	Ecological Classification	Very shallow	
13	Geology	Alluvial and eolian deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

The depth to groundwater reference exceeded 25 years from last sampling event; therefore, the closure criteria for remediation and reclamation of the site was determined to be associated with the strictest constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
< 50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids

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

BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

Inspection and site characterization of the release adjacent to the lease road was completed by Vertex between April 15 and June 17, 2025, including vertical and horizontal delineation. The release area on date of release was determined to be approximately 1,418 square feet. The total area of impact was determined to be approximately 3,683 square feet. Daily Field Reports associated with the characterization are included in Appendix C. Characterization sample locations and approximate release and impact areas are presented on Figure 1. Characterization laboratory results are summarized in Table 3. Only characterization samples that were submitted for laboratory analysis are represented on Figure 1 and in Table 3.

Remediation efforts began on June 5, 2025, and were finalized on July 2, 2025. Vertex personnel supervised the excavation of impacted soils. Field screening was completed on a total of 41 sample locations and consisted of analysis using a Dextsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Silver Nitrate Titration (chloride). Field screening results were used to identify areas requiring further remediation. Soils were removed to depths of 3 to 5 feet bgs. The material excavated consisted of limestone below the surface topsoil. The hard material resulted in variable depths at the base of the excavation. The excavation depths presented on Figure 2 and in Table 4 are the best approximations for those respective areas. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Daily Field Reports documenting various phases of the remediation are presented in Appendix C.

Notifications that confirmation samples were being collected were provided to the NMOCD at least 48 hours prior to the respective sampling events. Confirmatory composite samples were collected from the base and walls of the excavation in increments no greater than 200 square feet. A total of 33 excavation base samples and eight excavation wall samples were collected for laboratory analysis following NMOCD soil sampling procedures. Confirmation samples were collected from different portions of the excavation over multiple days, resulting in a discontinuous numbering scheme. Samples were submitted to Eurofins Environment Testing Laboratory in Albuquerque, New Mexico, under

chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chloride (EPA Method 300.0). Confirmation sample locations and corresponding laboratory results are presented on Figure 2 and in Table 4, respectively. Laboratory data reports are included in Appendix D.

The original laboratory results for excavation base samples BS25-04, BS25-09, and BS25-15 exceeded closure thresholds for chloride or TPH. The excavator was used to scrape the areas in question and increase the respective depths as much as 0.5 feet bgs to present fresh surfaces for collection of confirmation samples. Laboratory results for confirmation samples BS25-04, BS25-09, and BS25-15 re-collected at approximately 3.5 feet bgs were below NMOCD strictest criteria for chloride and TPH. All confirmation samples collected and submitted for laboratory testing are presented on Figure 2 and in Table 4.

The total areas of excavation bases and walls were approximately 6,291 and 1,330 square feet, respectively. Upon completion of remedial actions, approximately 6,291 square feet and 772 cubic yards of surface material were remediated to closure criteria. All final confirmation samples collected and analyzed were below closure criteria for the site.

6.0 Closure Request

Vertex recommends no additional remediation action to address the release at of B Lee State #006. Laboratory analyses of the final confirmatory samples showed constituent of concern concentration levels below NMOCD reclamation closure criteria for areas where depth to groundwater is less than 50 feet bgs as shown in Table 2. There are no anticipated risks to human, ecological or hydrological receptors associated with the release sites. The excavation was backfilled with non-waste-containing, uncontaminated, earthen material, sourced locally, and placed to meet the site's existing grade to prevent ponding of water and erosion.

Mach Energy Corporation requests that this incident (nAPP2510568312) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Mack certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the April 15, 2025, release east of B Lee State #006.

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

7.0 References

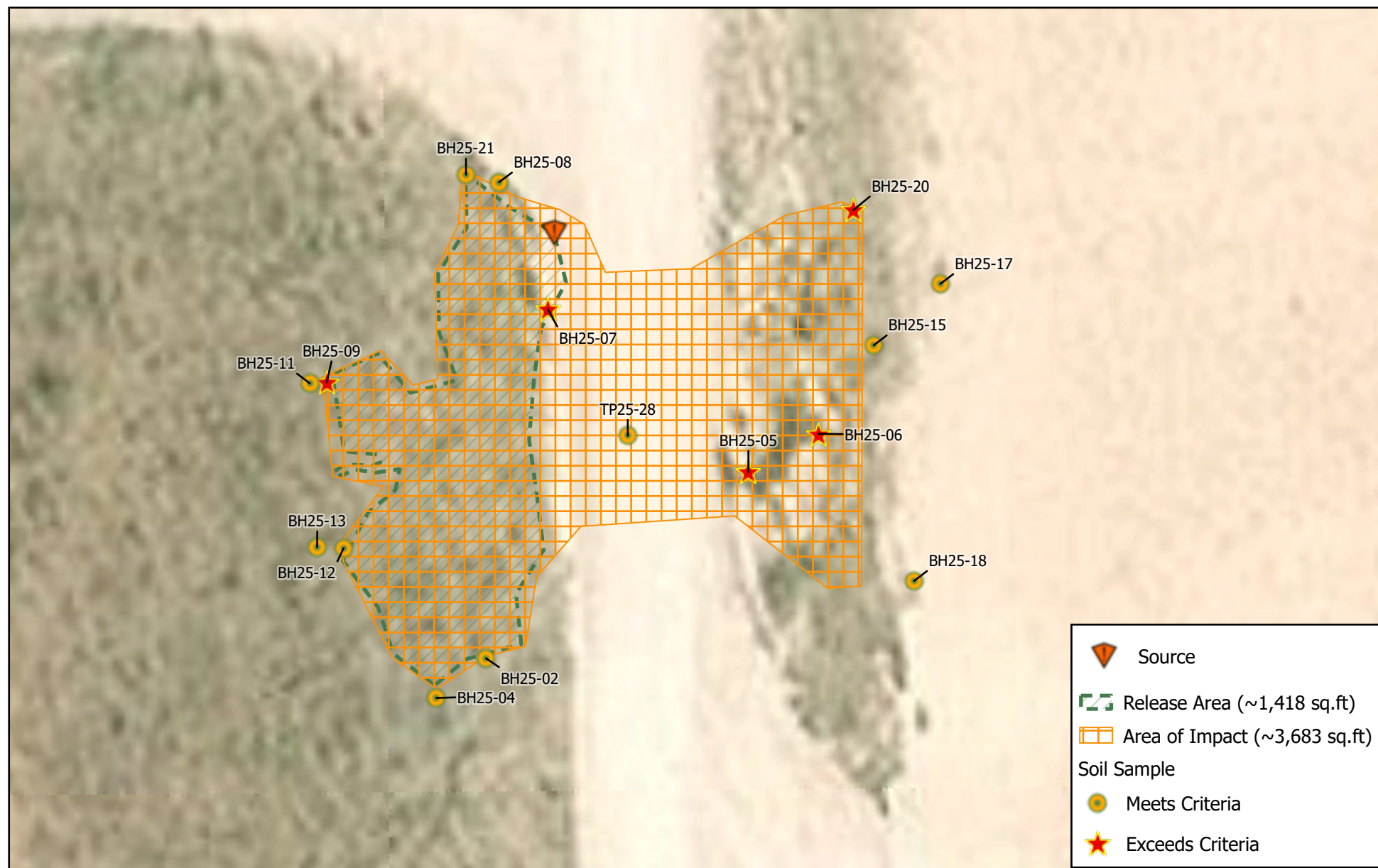
- Google Inc. (2025). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from <https://earth.google.com>
- New Mexico Bureau of Geology and Mineral Resources. (2025). *Interactive Geologic Map*. Retrieved from <https://maps.nmt.edu/>
- New Mexico Energy, Minerals and Natural Resources Department. (2025). *OCD Permitting - Spill Search*. Retrieved from <https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/Data/Spills/Spills.aspx>
- New Mexico Office of the State Engineer. (2025). *New Mexico Water Rights Reporting System*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html>
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2025). *Web Soil Survey*. Retrieved from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
- United States Department of Homeland Security, Federal Emergency Management Agency. (2025). *FEMA Flood Map Service: Search by Address*. Retrieved from <https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexico#searchresultsanchor>
- United States Fish and Wildlife Service. (2025). *National Wetland Inventory - Surface Waters and Wetlands*. Retrieved from <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>
- United States Geological Survey. (2025). *National Water Information System: Web Interface*. Retrieved from <https://waterdata.usgs.gov/nwis>

8.0 Limitations

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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.

FIGURES



0 10 20 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.76143°N, 103.502726°W

Date: Jul 08/25

**Characterization Sampling Site Schematic
B Lee State #006**

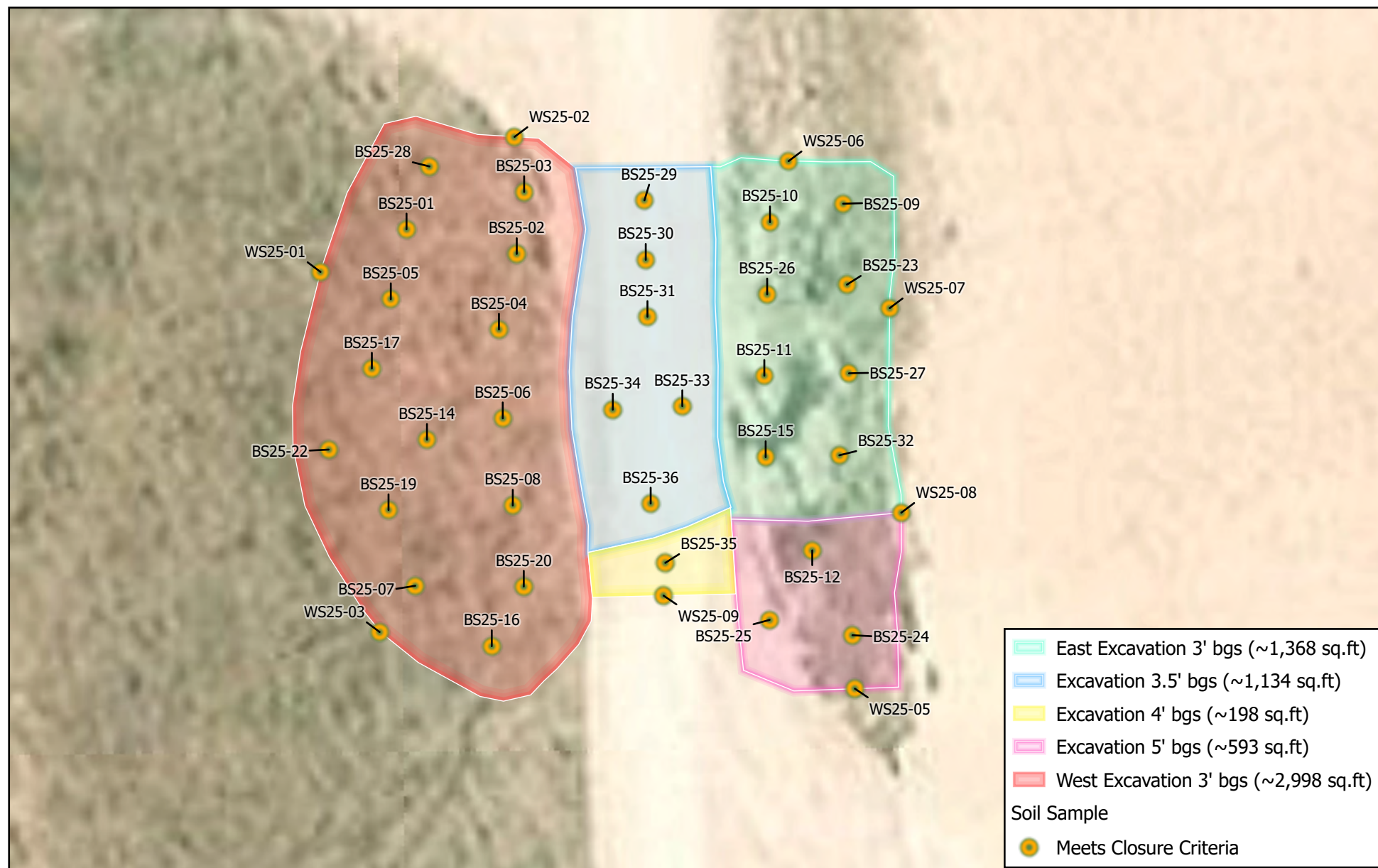
FIGURE:

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, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.



0 10 20 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.761415°N, 103.502732°W

Date: Jul 07/25



Confirmation Sample Location Schematic B Lee State #006

FIGURE:

2



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

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.

TABLES

Client Name: Mack Energy Corporation

Site Name: B Lee State #006

NMOCD Tracking #: NAPP2510568312

Project #: 25A-01934

Lab Reports: 885-24054-1, 885-24056-1, 885-24681, 885-24757-1, and 885-25054-1 ,885-27208-1, and 885-26495-1

Table 3. Initial Characterization Sample Laboratory Results

Table 3. Initial Characterization Sample 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)	Chloride Concentration
Depth to Groundwater <50 feet bgs										
BH25-02	0	April 28, 2025	ND	ND	ND	ND	ND	ND	ND	ND
	1	April 28, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-04	0	April 28, 2025	ND	ND	ND	ND	ND	ND	ND	ND
	1	April 28, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-05	0	April 28, 2025	ND	ND	ND	29	200	29	229	76
	1	April 28, 2025	ND	ND	ND	20	110	20	130	84
BH25-06	0	April 29, 2025	ND	ND	ND	87	240	87	327	ND
	1	April 29, 2025	ND	ND	ND	32	ND	32	32	ND
BH25-07	2	June 8, 2025	ND	ND	ND	ND	ND	ND	ND	1,200
	4	June 9, 2025	ND	ND	ND	ND	ND	ND	ND	610
	4.5	June 17, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-08	1	May 8, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-09	0.5	May 8, 2025	ND	ND	ND	ND	ND	ND	ND	810
BH25-11	1	May 8, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-12	1	May 8, 2025	ND	ND	ND	12	ND	12	12	78
BH25-13	0	May 9, 2025	ND	ND	ND	ND	59	ND	59	ND
	1	May 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-15	1	May 9, 2025	ND	ND	ND	ND	ND	ND	ND	210
BH25-17	0.5	May 9, 2025	ND	ND	ND	ND	ND	ND	ND	62
BH25-18	1	May 13,2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-20	0.5	May 13,2025	ND	ND	ND	ND	ND	ND	ND	830
BH25-21	1	May 13,2025	ND	ND	ND	ND	ND	ND	ND	ND
TP25-28	0	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	230
	2	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	390
	4	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"- " indicates not analyzed/assessed

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

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria

Client Name: Mack Energy Corporation

Site Name: B Lee State #006

NMOCD Tracking #: NAPP2510568312

Project #: 25A-01934

Lab Reports: 885-26495-1, 885-26814-1, 885-26816-1, 885-27206-1, 885-27207-1, 885-27453-1, 885-27455-1, 885-27456-1, and 885-28074-1

Table 4. Confirmation Sample Laboratory Results

Table 4. Confirmation Sample Laboratory Results											
Sample Description			Petroleum Hydrocarbons								Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable						
			Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)		
										(mg/kg)	
Depth to Groundwater <50 feet bgs											
BS25-01	3	June 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND	62
BS25-02	3	June 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND	210
BS25-03	3	June 12, 2025	ND	ND	ND	19	ND	19	19	19	110
BS25-04	3	June 10, 2025	ND	ND	ND	ND	ND	ND	ND	ND	689
	3.5	June 19, 2025	ND	ND	ND	ND	ND	ND	ND	ND	320
BS25-05	3	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	ND	190
BS25-06	3	June 10, 2025	ND	ND	ND	36	ND	36	36	36	380
BS25-07	3	June 10, 2025	ND	ND	ND	24	ND	24	24	24	280
BS25-08	3	June 10, 2025	ND	ND	ND	33	ND	33	33	33	440
BS25-09	3	June 13, 2025	ND	ND	ND	38	86	38	124	124	220
	3.5	June 18, 2025	ND	ND	ND	ND	ND	ND	ND	ND	430
BS25-10	3	June 17, 2025	ND	ND	ND	ND	ND	ND	ND	ND	510
BS25-11	3	June 17, 2025	ND	ND	ND	16	ND	16	16	16	550
BS25-12	5	June 17, 2025	ND	ND	ND	24	ND	24	24	24	390
BS25-14	3	June 12, 2025	ND	ND	ND	27	ND	27	27	27	190
BS25-15	3	June 17, 2025	ND	ND	ND	52	84	52	136	136	580
	3.5	July 2, 2025	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS25-16	3	June 12, 2025	ND	ND	ND	26	ND	26	26	26	180
BS25-17	3	June 12, 2025	ND	ND	ND	30	ND	30	30	30	360
BS25-19	3	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	ND	280
BS25-20	3	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	ND	150
BS25-22	3	June 12, 2025	ND	ND	ND	10	ND	10	10	10	200
BS25-23	3	June 17, 2023	ND	ND	ND	ND	ND	ND	ND	ND	460
BS25-24	5	June 18, 2025	ND	ND	ND	ND	ND	ND	ND	ND	180
BS25-25	5	June 17, 2025	ND	ND	ND	13	ND	13	13	13	180
BS25-26	3	June 18, 2025	ND	ND	ND	ND	ND	ND	ND	ND	500
BS25-27	3	June 17, 2025	ND	ND	ND	ND	ND	ND	ND	ND	390
BS25-28	3	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS25-29	3.5	June 23, 2025	ND	ND	ND	39	ND	39	39	39	66
BS25-30	3.5	June 20, 2025	ND	ND	ND	30	ND	30	30	30	340
BS25-31	3.5	June 20, 2025	ND	ND	ND	38	ND	38	38	38	230
BS25-32	3	June 17, 2025	ND	ND	ND	26	54	26	80	80	440
BS25-33	3.5	June 20, 2025	ND	ND	ND	ND	ND	ND	ND	ND	430
BS25-34	3.5	June 20, 2025	ND	ND	ND	ND	ND	ND	ND	ND	360
BS25-35	4	June 23, 2025	ND	ND	ND	ND	ND	ND	ND	ND	95
BS25-36	3.5	June 23, 2025	ND	ND	ND	30	ND	30	30	30	200

Client Name: Mack Energy Corporation

Site Name: B Lee State #006

NMOCD Tracking #: NAPP2510568312

Project #: 25A-01934

Lab Reports: 885-26495-1, 885-26814-1, 885-26816-1, 885-27206-1, 885-27207-1, 885-27453-1, 885-27455-1, 885-27456-1, and 885-28074-1

Table 4. Confirmation Sample 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)	Chloride Concentration
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
Depth to Groundwater <50 feet bgs										
WS25-01	0-3	June 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WS25-02	0-3	June 9, 2025	ND	ND	ND	ND	ND	ND	ND	62
WS25-03	0-3	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	100
WS25-05	0-5	June 17, 2025	ND	ND	ND	ND	ND	ND	ND	320
WS25-06	0-3	June 13, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WS25-07	0-3	June 19, 2025	ND	ND	ND	ND	ND	ND	ND	67
WS25-08	3-5	July 2, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WS25-09	0-4	July 2, 2025	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"- " indicates not analyzed/assessed

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

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria

Strikethrough indicates the excavation depth was increased and the soil represented by the sample was removed

APPENDIX A - NMOCD C-141 Report

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 452932

QUESTIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 452932
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2510568312
Incident Name	NAPP2510568312 B LEE STATE #006 @ 30-025-39673
Incident Type	Oil Release
Incident Status	Initial C-141 Received
Incident Well	[30-025-39673] B LEE STATE #006

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	B Lee State #006
Date Release Discovered	04/15/2025
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil 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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 15 BBL Recovered: 2 BBL Lost: 13 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 452932

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 452932
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False
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	Release occurred outside of containment.

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: Sally Carttar Title: Consultant Email: scarttar@vertex.ca Date: 04/21/2025
--	---

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

QUESTIONS, Page 3

Action 452932

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 452932
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

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

Remediation Plan	
<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	No
<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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 452932

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 452932
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	None	5/16/2025

APPENDIX B – Closure Criteria Research Documentation

APPENDIX C – Daily Field Reports



Daily Site Visit Report

Client:	<u>Mack Energy Corporation</u>	Inspection Date:	<u>4/28/2025</u>
Site Location Name:	<u>B Lee State #006</u>	Report Run Date:	<u>4/28/2025 11:48 PM</u>
Client Contact Name:	<u>Matt Buckles</u>	API #:	<u>30-025-39637</u>
Client Contact Phone #:	<u>575-748-1288</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site 4/28/2025 8:30 AM

Departed Site 4/28/2025 3:40 PM

Field Notes

- 9:11** Start JSA, DFR, DSS, and line sweep the area.
- 9:14** Began mapping with the geode
- 11:05** Very rocky, hitting refusal at 1-1.5ft on our boreholes.
- 14:58** Extend one call to east to get a clean sample
- 15:36** Mark one call corners, extension to the east.

Next Steps & Recommendations

- 1 Continue borehole, wait for archeological hold to lift.

Daily Site Visit Report



Site Photos

Viewing Direction: North



Line sweeping the release before beginning delineation

Viewing Direction: Northwest



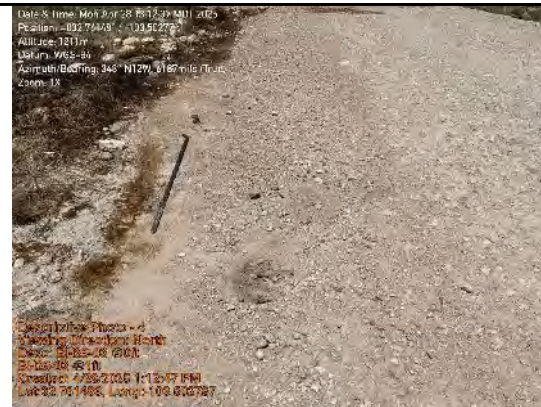
Borehole 1 @0ft
Borehole 1 @1ft
Borehole 1 @ 1.5ft

Viewing Direction: Northeast



Borehole 2 @0ft
Borehole 2 @1ft

Viewing Direction: North



BH25-03 @0ft
BH25-03 @1ft



Daily Site Visit Report

Viewing Direction: East



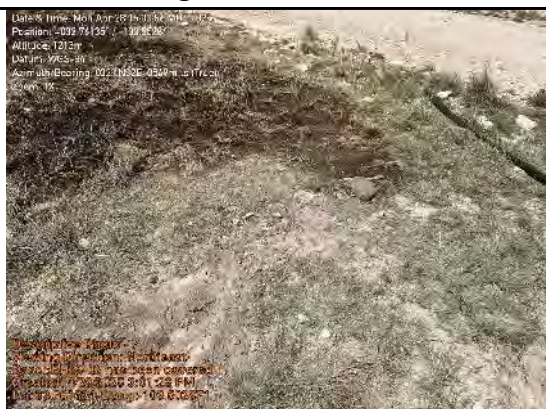
As we dug into boreholes we came across large rocks making it difficult to acquire borehole. For reference here is BH25-04 with rocks to the right.

Viewing Direction: Northeast



BH25-01 has been covered

Viewing Direction: Northeast



BH25-02 has been covered

Viewing Direction: Northeast



BH25-04 has been covered



Daily Site Visit Report

Viewing Direction: North



BH25-03 has been covered

Viewing Direction: West



BH25-05 has been covered

Viewing Direction: West



Northeast corner of one call facing west.

Viewing Direction: South



Northeast corner of one call facing south.



Daily Site Visit Report

Viewing Direction: East



Northwest corner of one call facing east.

Viewing Direction: South



Northwest corner of one call facing south.

Viewing Direction: North



Southwest corner of one call facing north.

Viewing Direction: East



Southwest corner of one call facing east.



Daily Site Visit Report

Viewing Direction: West



Southeast corner of one call facing west.

Viewing Direction: North



Southeast corner of one call facing north.

Viewing Direction: Northwest



End of day picture viewing of the release

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature: 
Signature



Daily Site Visit Report

Client:	Mack Energy Corporation	Inspection Date:	4/29/2025
Site Location Name:	B Lee State #006	Report Run Date:	4/29/2025 10:42 PM
Client Contact Name:	Matt Buckles	API #:	30-025-39637
Client Contact Phone #:	575-748-1288		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site 4/29/2025 9:13 AM

Departed Site 4/29/2025 1:00 PM

Field Notes

9:13 Complete JSA and line sweep the area

9:49 Line sweep complete

Next Steps & Recommendations

1 Wait until archeological hold has been lifted and continue to acquire samples to the north

Daily Site Visit Report



Site Photos

Viewing Direction: East



Site view before delineation begins for the day

Viewing Direction: North



Line sweeping the site

Viewing Direction: North



BH25-06 at 0ft

BH25-06 at 1ft

Hitting refusal at 1ft

Viewing Direction: North



BH25-06 has been covered

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature: 
Signature



Daily Site Visit Report

Client: Mack Energy Corporation
Site Location Name: B Lee State #006
Inspection Date: 6/12/2025

Incident ID #: _____
API #: 30-025-39637

Summary of Times

Arrived at Site 6/12/2025 7:15 AM
Departed Site 6/12/2025 4:49 PM

Field Notes

7:39 Start a test excavation pit on the road to 4'

7:39 Aquire a base sample at 0', 1', 2', 3'and 4' for the test pit in the road

13:57 Due to trying to get the West of the excavation ready and complete with 5 point composites, samples on the East side will not be collected on 6.12.25 as stated in the 6.11.25 DFR.

Next Steps & Recommendations

1 Send clean samples to the lab

Daily Site Visit Report



Site Photos

Viewing Direction: Southwest



Site view beginning test pit on the road

Viewing Direction: Northeast



TP25-28 at 0ft, 1ft, 2ft, 4ft, and 5ft. Sample has been acquired at these depths and field screened

Viewing Direction: Northeast



BS25-20 at 3ft, a 5 point composite and discrete sample has been acquired

Viewing Direction: Southwest



BS25-17 at 3ft, a 5 point composite and discrete sample have been acquired.



Daily Site Visit Report

Viewing Direction: Northeast  BS25-22 at 3ft, a 5 point composite and discrete sample have been acquired	Viewing Direction: Northeast  BS25-19 at 3ft, a 5 point composite and discrete sample has been acquired
Viewing Direction: Southwest  WS25-03 at 0-3 ft, a 5 point composite has been acquired	Viewing Direction: Southwest  Site view of the area



Daily Site Visit Report

Viewing Direction: Southeast  BS25-08 at 3ft, a 5 point composite has been acquired	Viewing Direction: Northwest  BS25-07 at 3ft, 5 point composite has been acquire.
Viewing Direction: Southeast  BS25-16 at 3ft, a 5 point composite has been acquired	Viewing Direction: Southwest  BS25-06 at 3ft, a 5 point composite has been acquired



Daily Site Visit Report

Viewing Direction: Northeast



BS25-05 at 3ft, a 5 point composite has been acquired.

Viewing Direction: Northeast



BS25-04 at 3ft, 5 point composite



Daily Site Visit Report

Viewing Direction: Southeast



BS25-14 at 3ft, a 5 point composite has been acquired.

Viewing Direction: Northeast



BS25-06 at 3ft, 5 point composite acquired.



Daily Site Visit Report

Viewing Direction: Southeast



End of day site view

Viewing Direction: Southwest



End of day site view

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature:

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



Daily Site Visit Report

Client:	Mack Energy Corporation	Incident ID #:	
Site Location Name:	B Lee State #006	API #:	30-025-39637
Inspection Date:	6/16/2025		

Summary of Times

Arrived at Site	6/16/2025 7:06 AM
Departed Site	6/16/2025 12:12 PM

Field Notes

18:54 Take images of excavation

18:54 JSA has been filled out by everyone on site.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: Southwest



Site view of the excavation at 3ft and 5ft.
Picture taken from the Northeast corner of the excavation.

Viewing Direction: Southwest



Site view of the excavation at 3ft and 5ft.
Picture taken from the Northeast corner of the excavation.



Daily Site Visit Report

Viewing Direction: Southeast



Site view of the excavation at 3ft and 5ft.
Picture taken from the North.

Viewing Direction: Southeast



Site view of the excavation at 3ft and 5ft.
Picture taken from the Northwest corner of
the excavation.

Viewing Direction: Southwest



Site view of the excavation at 3ft. Picture taken from the Northeast corner of the excavation.

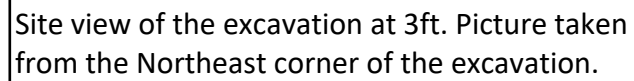
Viewing Direction: Southeast



Site view of the excavation at 3ft. Picture taken from the North end of the excavation.



Viewing Direction: Southeast



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature: 
Signature



Daily Site Visit Report

Client:	<u>Mack Energy Corporation</u>	Incident ID #:	<u></u>
Site Location Name:	<u>B Lee State #006</u>	API #:	<u>30-025-39637</u>
Inspection Date:	<u>6/18/2025</u>		<u></u>

Summary of Times

Arrived at Site	<u>6/18/2025 11:23 AM</u>
Departed Site	<u>6/18/2025 4:53 PM</u>

Field Notes

16:45 Collect BS25-09, BS25-26, and BS25-24

16:46 JSA has been filled out by everyone on site

Next Steps & Recommendations

1 Continue excavation

Daily Site Visit Report



Site Photos

Viewing Direction: Northwest



BS25-09 at 3.5ft

Viewing Direction: Southwest



Excavation View of the West side excavation

Viewing Direction: Southeast



Excavation view of the East side excavation

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature:

A handwritten signature in black ink, appearing to read 'Sharon Minnix', written over a horizontal line.

Signature



Daily Site Visit Report

Client:	<u>Mack Energy Corporation</u>	Incident ID #:	<u></u>
Site Location Name:	<u>B Lee State #006</u>	API #:	<u>30-025-39637</u>
Inspection Date:	<u>6/19/2025</u>		<u></u>

Summary of Times

Arrived at Site	<u>6/19/2025 7:15 AM</u>
Departed Site	<u>6/19/2025 2:36 PM</u>

Field Notes

16:10 JSA has been completed by everyone on site

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: Northeast



BS25-04 at 3.5ft

Viewing Direction: Northwest



A bypass road was created on the West to remove the road the main road.

Viewing Direction: Northwest



A bypass road was created on the West to remove the road the main road.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature:

A handwritten signature in black ink, appearing to be 'Sharon Minnix', written over a horizontal line. The signature is stylized with a large initial 'S' and a prominent 'M'.



Daily Site Visit Report

Client:	<u>Mack Energy Corporation</u>	Incident ID #:	<u></u>
Site Location Name:	<u>B Lee State #006</u>	API #:	<u>30-025-39637</u>
Inspection Date:	<u>6/20/2025</u>		<u></u>

Summary of Times

Arrived at Site 6/20/2025 7:00 AM

Departed Site 6/20/2025 4:00 PM

Field Notes

17:55 JSA has been filled out by everyone on site.

17:55 Remove the road and field screen. Remove the road to 3.5ft

Next Steps & Recommendations

1 Send samples to the lab

Daily Site Visit Report



Site Photos

Viewing Direction: Northwest



Photo of the road before excavation begins.

Viewing Direction: Southwest



Photo showing the road has been removed to 3.5ft

Viewing Direction: Southwest



Photo showing the road has been removed to 3.5ft. Samples have been acquired and will be field screened.

Viewing Direction: Southwest



End of Day site view

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature:


Signature



Daily Site Visit Report

Client: Mack Energy Corporation
Site Location Name: B Lee State #006
Inspection Date: 6/24/2025

Incident ID #: _____
API #: 30-025-39637

Summary of Times

Arrived at Site 6/24/2025 7:13 AM
Departed Site 6/24/2025 3:30 PM

Field Notes

9:06 JSA has been filled out by everyone on site.

9:07 Collect BS25-15 at 3.5ft

Next Steps & Recommendations

1 Send samples to the lab. Acquire wall samples.

Daily Site Visit Report



Site Photos

Viewing Direction: Southwest



BS25-15 before we excavate .5ft and field screen

Viewing Direction: Southwest



BS25-15 at 3.5ft

Viewing Direction: Southeast



Northwest corner looking at site view.

Viewing Direction: Southwest



Northeast corner looking towards the site.



Daily Site Visit Report

Viewing Direction: Southwest



End of day site view

Viewing Direction: Southwest



Site view of excavation

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature:

A handwritten signature in black ink, appearing to read 'Sharon Minnix', written over a horizontal line. Below the line, the word 'Signature' is faintly visible.



Daily Site Visit Report

Client:	<u>Mack Energy Corporation</u>	Incident ID #:	<u></u>
Site Location Name:	<u>B Lee State #006</u>	API #:	<u>30-025-39637</u>
Inspection Date:	<u>6/25/2025</u>		<u></u>

Summary of Times

Arrived at Site	<u>6/25/2025 7:06 AM</u>
Departed Site	<u>6/25/2025 9:23 AM</u>

Field Notes

12:01 JSA has been filled out by everyone on site
12:01 Rainy weather may limit the work for today.

Next Steps & Recommendations

1 All needed base and wall samples have been acquired per the 200 square ft NMOCD process. Samples have been sent for lab analysis.

Daily Site Visit Report



Site Photos

Viewing Direction: Southwest



Site view of excavation from the Northeast corner of the site.

Viewing Direction: Southwest



Site view of excavation

Viewing Direction: Northwest



Site view of excavation from the Southeast corner.

Viewing Direction: Northwest



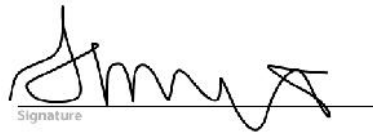
Site view of excavation.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature: 
Signature



Daily Site Visit Report

Client:	Mack Energy Corporation	Incident ID #:	
Site Location Name:	B Lee State #006	API #:	30-025-39637
Inspection Date:	7/2/2025		

Summary of Times

Arrived at Site	7/2/2025 8:04 AM
Departed Site	7/2/2025 2:25 PM

Field Notes

- 12:19** Completed JSA on arrival. On site to re-collect confirmation samples BS25-15, WS25-08, and WS25-09.
- 12:21** Excavation area was along lease road. Swept sampling areas with magnetic locator prior sample collection.
- 13:57** Collected confirmation base sample BH25-15 between 3 and 3.5 feet bgs (variable depth due to rock). Collected confirmation wall sample WS25-08 between 3 and 5 feet bgs. Collected confirmation wall sample WS25-09 between 0 and 4 feet bgs . Confirmation samples collected from the excavation base and walls were 5-point composites representing areas no greater than 200 square feet.
- 13:59** Sampling and field screening were slowed by rainfall.
- 13:59** Field screening results for confirmation samples BS25-15, WS25-08, and WS25-09 were below NMOCD strictest criteria for chloride and TPH.
- 15:18** Met laboratory courier and handed samples over to minimize lead time for results.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: South



Inside excavation facing south. Collected excavation base sample BS25-15 at 3 and 3.5 feet bgs.

Viewing Direction: East



Inside excavation facing east. Collected excavation wall sample WS25-08 from 3 to 5 feet bgs.



Daily Site Visit Report

Viewing Direction: Northeast



South edge of excavation facing northeast. Collected excavation wall sample WS25-08 from 3 to 5 feet bgs.

Viewing Direction: South



Inside excavation facing south. Collected excavation wall sample WS25-09 from 0 to 4 feet bgs.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:


Signature



Daily Site Visit Report

Client:	Mack Energy Corporation	Incident ID #:	
Site Location Name:	B Lee State #006	API #:	30-025-39637
Inspection Date:	7/11/2025		

Summary of Times

Arrived at Site	7/11/2025 2:20 PM
Departed Site	7/11/2025 2:35 PM

Field Notes

- 14:23 Completed JSA
- 14:24 Documented the completed backfilled location

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: West



Looking from the pad to the release

Viewing Direction: North



Top soil compared on the eastern side of the road

Viewing Direction: North



Caliche lease road rebuilt

Viewing Direction: Northwest



Western area of the lease road filled with topsoil



Daily Site Visit Report

Viewing Direction: Southwest



Backfill laid flat to match the contour of the surrounding area

Viewing Direction: Southeast



From the northwest corner looking southeast across the caliche

Viewing Direction: Southwest



From the southwest corner looking northeast across the caliche

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Katrina Taylor

Signature:

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

Signature

APPENDIX D – Laboratory Data Reports and Chain of Custody Forms



Environment Testing

- 1
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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/7/2025 2:43:41 PM

JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-24054-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.
Released to Imaging: 8/20/2025 9:51:12 AM



Eurofins Albuquerque

Job Notes

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

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)338-8812

Generated
5/7/2025 2:43:41 PM

Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-24054-1

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Definitions/Glossary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24054-1

Glossary

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

Case Narrative

Client: Vertex
Project: B Lee State #006

Job ID: 885-24054-1

Job ID: 885-24054-1

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Job Narrative 885-24054-1

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 5/1/2025 8:10 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 1.9°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

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Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24054-1

Client Sample ID: BH25-06 0'

Lab Sample ID: 885-24054-1

Date Collected: 04/29/25 09:50

Matrix: Solid

Date Received: 05/01/25 08:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/01/25 17:03	05/02/25 20:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			05/01/25 17:03	05/02/25 20:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/01/25 17:03	05/02/25 20:43	1
Ethylbenzene	ND		0.049	mg/Kg		05/01/25 17:03	05/02/25 20:43	1
Toluene	ND		0.049	mg/Kg		05/01/25 17:03	05/02/25 20:43	1
Xylenes, Total	ND		0.098	mg/Kg		05/01/25 17:03	05/02/25 20:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			05/01/25 17:03	05/02/25 20:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	87		20	mg/Kg		05/02/25 12:59	05/02/25 19:49	2
Motor Oil Range Organics [C28-C40]	240		99	mg/Kg		05/02/25 12:59	05/02/25 19:49	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			05/02/25 12:59	05/02/25 19:49	2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/02/25 11:06	05/02/25 17:44	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24054-1

Client Sample ID: BH25-06 1'

Lab Sample ID: 885-24054-2

Date Collected: 04/29/25 10:40

Matrix: Solid

Date Received: 05/01/25 08:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		05/01/25 17:03	05/02/25 21:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			05/01/25 17:03	05/02/25 21:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/25 17:03	05/02/25 21:05	1
Ethylbenzene	ND		0.047	mg/Kg		05/01/25 17:03	05/02/25 21:05	1
Toluene	ND		0.047	mg/Kg		05/01/25 17:03	05/02/25 21:05	1
Xylenes, Total	ND		0.095	mg/Kg		05/01/25 17:03	05/02/25 21:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			05/01/25 17:03	05/02/25 21:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	32		9.6	mg/Kg		05/02/25 12:59	05/06/25 16:09	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/02/25 12:59	05/06/25 16:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			05/02/25 12:59	05/06/25 16:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/02/25 11:06	05/02/25 17:55	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24054-1

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

Lab Sample ID: MB 885-25372/1-A

Matrix: Solid

Analysis Batch: 25397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25372

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/01/25 17:03	05/02/25 11:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			05/01/25 17:03	05/02/25 11:41	1

Lab Sample ID: LCS 885-25372/2-A

Matrix: Solid

Analysis Batch: 25397

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	27.7		mg/Kg		111	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	211		35 - 166				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-25372/1-A

Matrix: Solid

Analysis Batch: 25398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25372

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/01/25 17:03	05/02/25 11:41	1
Ethylbenzene	ND		0.050	mg/Kg		05/01/25 17:03	05/02/25 11:41	1
Toluene	ND		0.050	mg/Kg		05/01/25 17:03	05/02/25 11:41	1
Xylenes, Total	ND		0.10	mg/Kg		05/01/25 17:03	05/02/25 11:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			05/01/25 17:03	05/02/25 11:41	1

Lab Sample ID: LCS 885-25372/3-A

Matrix: Solid

Analysis Batch: 25398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.03		mg/Kg		103	70 - 130
Ethylbenzene	1.00	1.03		mg/Kg		103	70 - 130
m,p-Xylene	2.00	2.10		mg/Kg		105	70 - 130
o-Xylene	1.00	1.04		mg/Kg		104	70 - 130
Toluene	1.00	1.01		mg/Kg		101	70 - 130
Xylenes, Total	3.00	3.14		mg/Kg		105	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	97		48 - 145				

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24054-1

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

Lab Sample ID: MB 885-25426/1-A

Matrix: Solid

Analysis Batch: 25385

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25426

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/02/25 12:59	05/02/25 15:41	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/02/25 12:59	05/02/25 15:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			05/02/25 12:59	05/02/25 15:41	1

Lab Sample ID: LCS 885-25426/2-A

Matrix: Solid

Analysis Batch: 25385

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	51.3		mg/Kg		103	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	104		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-25414/1-A

Matrix: Solid

Analysis Batch: 25422

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25414

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		05/02/25 11:06	05/02/25 12:37	1
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Chloride	97		90 - 110					

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24054-1

GC VOA

Prep Batch: 25372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	5030C	
885-24054-2	BH25-06 1'	Total/NA	Solid	5030C	
MB 885-25372/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-25372/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-25372/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 25397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	8015M/D	25372
885-24054-2	BH25-06 1'	Total/NA	Solid	8015M/D	25372
MB 885-25372/1-A	Method Blank	Total/NA	Solid	8015M/D	25372
LCS 885-25372/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25372

Analysis Batch: 25398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	8021B	25372
885-24054-2	BH25-06 1'	Total/NA	Solid	8021B	25372
MB 885-25372/1-A	Method Blank	Total/NA	Solid	8021B	25372
LCS 885-25372/3-A	Lab Control Sample	Total/NA	Solid	8021B	25372

GC Semi VOA

Analysis Batch: 25385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	8015M/D	25426
MB 885-25426/1-A	Method Blank	Total/NA	Solid	8015M/D	25426
LCS 885-25426/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25426

Prep Batch: 25426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	SHAKE	
885-24054-2	BH25-06 1'	Total/NA	Solid	SHAKE	
MB 885-25426/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-25426/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 25545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-2	BH25-06 1'	Total/NA	Solid	8015M/D	25426

HPLC/IC

Prep Batch: 25414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	300_Prep	
885-24054-2	BH25-06 1'	Total/NA	Solid	300_Prep	
MB 885-25414/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25414/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 25422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	300.0	25414
885-24054-2	BH25-06 1'	Total/NA	Solid	300.0	25414

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24054-1

HPLC/IC (Continued)

Analysis Batch: 25422 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-25414/1-A	Method Blank	Total/NA	Solid	300.0	25414
LCS 885-25414/2-A	Lab Control Sample	Total/NA	Solid	300.0	25414

- 1
- 2
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Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24054-1

Client Sample ID: BH25-06 0'
Date Collected: 04/29/25 09:50
Date Received: 05/01/25 08:10

Lab Sample ID: 885-24054-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 20:43
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 20:43
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		2	25385	MI	EET ALB	05/02/25 19:49
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 17:44

Client Sample ID: BH25-06 1'
Date Collected: 04/29/25 10:40
Date Received: 05/01/25 08:10

Lab Sample ID: 885-24054-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 21:05
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 21:05
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		1	25545	MI	EET ALB	05/06/25 16:09
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 17:55

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24054-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Age Group	Number of People
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-24054-1

Login Number: 24054

List Source: Eurofins Albuquerque

List Number: 1

Creator: Dominguez, Desiree

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/7/2025 2:43:41 PM

JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-24056-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)338-8812

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Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-24056-1

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Definitions/Glossary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

Glossary

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

Case Narrative

Client: Vertex
Project: B Lee State #006

Job ID: 885-24056-1

Job ID: 885-24056-1

Eurofins Albuquerque

Job Narrative 885-24056-1

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 5/1/2025 8:10 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 1.9°C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

Client Sample ID: BH25-02 0.0'

Lab Sample ID: 885-24056-1

Date Collected: 04/28/25 09:40

Matrix: Solid

Date Received: 05/01/25 08:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/02/25 07:07	05/05/25 13:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			05/02/25 07:07	05/05/25 13:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/02/25 07:07	05/05/25 13:14	1
Ethylbenzene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 13:14	1
Toluene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 13:14	1
Xylenes, Total	ND		0.10	mg/Kg		05/02/25 07:07	05/05/25 13:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/02/25 07:07	05/05/25 13:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/02/25 12:56	05/02/25 21:15	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/02/25 12:56	05/02/25 21:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			05/02/25 12:56	05/02/25 21:15	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59	mg/Kg		05/04/25 13:07	05/05/25 08:55	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

Client Sample ID: BH25-02 1.0'

Lab Sample ID: 885-24056-2

Date Collected: 04/28/25 09:55

Matrix: Solid

Date Received: 05/01/25 08:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/02/25 07:07	05/05/25 14:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/02/25 07:07	05/05/25 14:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/02/25 07:07	05/05/25 14:19	1
Ethylbenzene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 14:19	1
Toluene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 14:19	1
Xylenes, Total	ND		0.10	mg/Kg		05/02/25 07:07	05/05/25 14:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/02/25 07:07	05/05/25 14:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		05/02/25 12:56	05/02/25 21:48	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/02/25 12:56	05/02/25 21:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			05/02/25 12:56	05/02/25 21:48	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/04/25 13:07	05/05/25 09:25	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

Client Sample ID: BH25-04 0.0'

Lab Sample ID: 885-24056-3

Date Collected: 04/28/25 13:10

Matrix: Solid

Date Received: 05/01/25 08:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/02/25 07:07	05/05/25 15:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/02/25 07:07	05/05/25 15:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/02/25 07:07	05/05/25 15:24	1
Ethylbenzene	ND		0.049	mg/Kg		05/02/25 07:07	05/05/25 15:24	1
Toluene	ND		0.049	mg/Kg		05/02/25 07:07	05/05/25 15:24	1
Xylenes, Total	ND		0.098	mg/Kg		05/02/25 07:07	05/05/25 15:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/02/25 07:07	05/05/25 15:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		05/02/25 12:56	05/02/25 21:58	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/02/25 12:56	05/02/25 21:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			05/02/25 12:56	05/02/25 21:58	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/04/25 13:07	05/05/25 10:14	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

Client Sample ID: BH25-04 1.0'

Lab Sample ID: 885-24056-4

Date Collected: 04/28/25 13:20

Matrix: Solid

Date Received: 05/01/25 08:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/02/25 07:07	05/05/25 15:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/02/25 07:07	05/05/25 15:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/02/25 07:07	05/05/25 15:46	1
Ethylbenzene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 15:46	1
Toluene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 15:46	1
Xylenes, Total	ND		0.099	mg/Kg		05/02/25 07:07	05/05/25 15:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/02/25 07:07	05/05/25 15:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/02/25 12:56	05/02/25 22:09	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/02/25 12:56	05/02/25 22:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			05/02/25 12:56	05/02/25 22:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/04/25 13:07	05/05/25 10:24	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

Client Sample ID: BH25-05 0.0'

Lab Sample ID: 885-24056-5

Date Collected: 04/28/25 13:25

Matrix: Solid

Date Received: 05/01/25 08:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/02/25 07:07	05/05/25 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			05/02/25 07:07	05/05/25 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/02/25 07:07	05/05/25 16:07	1
Ethylbenzene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 16:07	1
Toluene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 16:07	1
Xylenes, Total	ND		0.099	mg/Kg		05/02/25 07:07	05/05/25 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/02/25 07:07	05/05/25 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	29		19	mg/Kg		05/02/25 12:56	05/02/25 22:20	2
Motor Oil Range Organics [C28-C40]	200		97	mg/Kg		05/02/25 12:56	05/02/25 22:20	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			05/02/25 12:56	05/02/25 22:20	2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76		60	mg/Kg		05/04/25 13:07	05/05/25 10:33	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

Client Sample ID: BH25-05 1.0'

Lab Sample ID: 885-24056-6

Date Collected: 04/28/25 14:00

Matrix: Solid

Date Received: 05/01/25 08:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/02/25 07:07	05/05/25 16:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/02/25 07:07	05/05/25 16:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/02/25 07:07	05/05/25 16:29	1
Ethylbenzene	ND		0.048	mg/Kg		05/02/25 07:07	05/05/25 16:29	1
Toluene	ND		0.048	mg/Kg		05/02/25 07:07	05/05/25 16:29	1
Xylenes, Total	ND		0.096	mg/Kg		05/02/25 07:07	05/05/25 16:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			05/02/25 07:07	05/05/25 16:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	20		9.7	mg/Kg		05/02/25 12:56	05/06/25 16:19	1
Motor Oil Range Organics [C28-C40]	110		49	mg/Kg		05/02/25 12:56	05/06/25 16:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			05/02/25 12:56	05/06/25 16:19	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84		60	mg/Kg		05/04/25 13:07	05/05/25 10:43	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

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

Lab Sample ID: MB 885-25383/1-A

Matrix: Solid

Analysis Batch: 25508

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25383

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/02/25 07:07	05/05/25 12:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			05/02/25 07:07	05/05/25 12:52	1

Lab Sample ID: LCS 885-25383/2-A

Matrix: Solid

Analysis Batch: 25508

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	27.9		mg/Kg		111	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	215		35 - 166				

Lab Sample ID: 885-24056-1 MS

Matrix: Solid

Analysis Batch: 25508

Client Sample ID: BH25-02 0.0'

Prep Type: Total/NA

Prep Batch: 25383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		25.0	26.7		mg/Kg		107	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	211		35 - 166						

Lab Sample ID: 885-24056-1 MSD

Matrix: Solid

Analysis Batch: 25508

Client Sample ID: BH25-02 0.0'

Prep Type: Total/NA

Prep Batch: 25383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		25.0	28.1		mg/Kg		112	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	212		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-25383/1-A

Matrix: Solid

Analysis Batch: 25509

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25383

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/02/25 07:07	05/05/25 12:52	1
Ethylbenzene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 12:52	1
Toluene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 12:52	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

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

Lab Sample ID: MB 885-25383/1-A

Matrix: Solid

Analysis Batch: 25509

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25383

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		05/02/25 07:07	05/05/25 12:52	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			05/02/25 07:07	05/05/25 12:52	1

Lab Sample ID: LCS 885-25383/3-A

Matrix: Solid

Analysis Batch: 25509

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.03		mg/Kg		103	70 - 130
Ethylbenzene	1.00	1.04		mg/Kg		104	70 - 130
m,p-Xylene	2.00	2.07		mg/Kg		104	70 - 130
o-Xylene	1.00	1.04		mg/Kg		104	70 - 130
Toluene	1.00	1.01		mg/Kg		101	70 - 130
Xylenes, Total	3.00	3.11		mg/Kg		104	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		48 - 145				

Lab Sample ID: 885-24056-2 MS

Matrix: Solid

Analysis Batch: 25509

Client Sample ID: BH25-02 1.0'

Prep Type: Total/NA

Prep Batch: 25383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.999	1.02		mg/Kg		102	70 - 130
Ethylbenzene	ND		0.999	1.04		mg/Kg		104	70 - 130
m,p-Xylene	ND		2.00	2.08		mg/Kg		104	70 - 130
o-Xylene	ND		0.999	1.04		mg/Kg		105	70 - 130
Toluene	ND		0.999	1.01		mg/Kg		101	70 - 130
Xylenes, Total	ND		3.00	3.13		mg/Kg		104	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	92		48 - 145						

Lab Sample ID: 885-24056-2 MSD

Matrix: Solid

Analysis Batch: 25509

Client Sample ID: BH25-02 1.0'

Prep Type: Total/NA

Prep Batch: 25383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.995	0.997		mg/Kg		100	70 - 130	3	20
Ethylbenzene	ND		0.995	1.03		mg/Kg		104	70 - 130	1	20
m,p-Xylene	ND		1.99	2.08		mg/Kg		105	70 - 130	0	20
o-Xylene	ND		0.995	1.04		mg/Kg		104	70 - 130	1	20
Toluene	ND		0.995	0.988		mg/Kg		99	70 - 130	3	20
Xylenes, Total	ND		2.99	3.12		mg/Kg		104	70 - 130	0	20

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

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

Lab Sample ID: 885-24056-2 MSD

Matrix: Solid

Analysis Batch: 25509

Client Sample ID: BH25-02 1.0'

Prep Type: Total/NA

Prep Batch: 25383

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

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

Lab Sample ID: MB 885-25425/1-A

Matrix: Solid

Analysis Batch: 25385

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25425

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/02/25 12:56	05/02/25 20:54	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/02/25 12:56	05/02/25 20:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134			05/02/25 12:56	05/02/25 20:54	1

Lab Sample ID: LCS 885-25425/2-A

Matrix: Solid

Analysis Batch: 25385

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	53.6		mg/Kg		107	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	110		62 - 134				

Lab Sample ID: 885-24056-1 MS

Matrix: Solid

Analysis Batch: 25385

Client Sample ID: BH25-02 0.0'

Prep Type: Total/NA

Prep Batch: 25425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		50.0	49.0		mg/Kg		98	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	115		62 - 134						

Lab Sample ID: 885-24056-1 MSD

Matrix: Solid

Analysis Batch: 25385

Client Sample ID: BH25-02 0.0'

Prep Type: Total/NA

Prep Batch: 25425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		49.7	47.6		mg/Kg		96	44 - 136	3	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	110		62 - 134								

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-25451/1-A

Matrix: Solid

Analysis Batch: 25454

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25451

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		05/04/25 13:07	05/05/25 08:06	1

Lab Sample ID: LCS 885-25451/2-A

Matrix: Solid

Analysis Batch: 25454

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25451

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.5		mg/Kg		95	90 - 110

Lab Sample ID: 885-24056-1 MS

Matrix: Solid

Analysis Batch: 25454

Client Sample ID: BH25-02 0.0'

Prep Type: Total/NA

Prep Batch: 25451

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		29.8	ND		mg/Kg		NC	50 - 150

Lab Sample ID: 885-24056-1 MSD

Matrix: Solid

Analysis Batch: 25454

Client Sample ID: BH25-02 0.0'

Prep Type: Total/NA

Prep Batch: 25451

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.1	ND		mg/Kg		NC	50 - 150	NC	20

Lab Sample ID: 885-24056-2 MS

Matrix: Solid

Analysis Batch: 25454

Client Sample ID: BH25-02 1.0'

Prep Type: Total/NA

Prep Batch: 25451

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		30.0	ND		mg/Kg		NC	50 - 150

Lab Sample ID: 885-24056-2 MSD

Matrix: Solid

Analysis Batch: 25454

Client Sample ID: BH25-02 1.0'

Prep Type: Total/NA

Prep Batch: 25451

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		29.9	ND		mg/Kg		NC	50 - 150	NC	20

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QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

GC VOA

Prep Batch: 25383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	5030C	
885-24056-2	BH25-02 1.0'	Total/NA	Solid	5030C	
885-24056-3	BH25-04 0.0'	Total/NA	Solid	5030C	
885-24056-4	BH25-04 1.0'	Total/NA	Solid	5030C	
885-24056-5	BH25-05 0.0'	Total/NA	Solid	5030C	
885-24056-6	BH25-05 1.0'	Total/NA	Solid	5030C	
MB 885-25383/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-25383/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-25383/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-24056-1 MS	BH25-02 0.0'	Total/NA	Solid	5030C	
885-24056-1 MSD	BH25-02 0.0'	Total/NA	Solid	5030C	
885-24056-2 MS	BH25-02 1.0'	Total/NA	Solid	5030C	
885-24056-2 MSD	BH25-02 1.0'	Total/NA	Solid	5030C	

Analysis Batch: 25508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	8015M/D	25383
885-24056-2	BH25-02 1.0'	Total/NA	Solid	8015M/D	25383
885-24056-3	BH25-04 0.0'	Total/NA	Solid	8015M/D	25383
885-24056-4	BH25-04 1.0'	Total/NA	Solid	8015M/D	25383
885-24056-5	BH25-05 0.0'	Total/NA	Solid	8015M/D	25383
885-24056-6	BH25-05 1.0'	Total/NA	Solid	8015M/D	25383
MB 885-25383/1-A	Method Blank	Total/NA	Solid	8015M/D	25383
LCS 885-25383/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25383
885-24056-1 MS	BH25-02 0.0'	Total/NA	Solid	8015M/D	25383
885-24056-1 MSD	BH25-02 0.0'	Total/NA	Solid	8015M/D	25383

Analysis Batch: 25509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	8021B	25383
885-24056-2	BH25-02 1.0'	Total/NA	Solid	8021B	25383
885-24056-3	BH25-04 0.0'	Total/NA	Solid	8021B	25383
885-24056-4	BH25-04 1.0'	Total/NA	Solid	8021B	25383
885-24056-5	BH25-05 0.0'	Total/NA	Solid	8021B	25383
885-24056-6	BH25-05 1.0'	Total/NA	Solid	8021B	25383
MB 885-25383/1-A	Method Blank	Total/NA	Solid	8021B	25383
LCS 885-25383/3-A	Lab Control Sample	Total/NA	Solid	8021B	25383
885-24056-2 MS	BH25-02 1.0'	Total/NA	Solid	8021B	25383
885-24056-2 MSD	BH25-02 1.0'	Total/NA	Solid	8021B	25383

GC Semi VOA

Analysis Batch: 25385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	8015M/D	25425
885-24056-2	BH25-02 1.0'	Total/NA	Solid	8015M/D	25425
885-24056-3	BH25-04 0.0'	Total/NA	Solid	8015M/D	25425
885-24056-4	BH25-04 1.0'	Total/NA	Solid	8015M/D	25425
885-24056-5	BH25-05 0.0'	Total/NA	Solid	8015M/D	25425
MB 885-25425/1-A	Method Blank	Total/NA	Solid	8015M/D	25425
LCS 885-25425/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25425

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QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

GC Semi VOA (Continued)

Analysis Batch: 25385 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1 MS	BH25-02 0.0'	Total/NA	Solid	8015M/D	25425
885-24056-1 MSD	BH25-02 0.0'	Total/NA	Solid	8015M/D	25425

Prep Batch: 25425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	SHAKE	
885-24056-2	BH25-02 1.0'	Total/NA	Solid	SHAKE	
885-24056-3	BH25-04 0.0'	Total/NA	Solid	SHAKE	
885-24056-4	BH25-04 1.0'	Total/NA	Solid	SHAKE	
885-24056-5	BH25-05 0.0'	Total/NA	Solid	SHAKE	
885-24056-6	BH25-05 1.0'	Total/NA	Solid	SHAKE	
MB 885-25425/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-25425/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-24056-1 MS	BH25-02 0.0'	Total/NA	Solid	SHAKE	
885-24056-1 MSD	BH25-02 0.0'	Total/NA	Solid	SHAKE	

Analysis Batch: 25545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-6	BH25-05 1.0'	Total/NA	Solid	8015M/D	25425

HPLC/IC

Prep Batch: 25451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	300_Prep	
885-24056-2	BH25-02 1.0'	Total/NA	Solid	300_Prep	
885-24056-3	BH25-04 0.0'	Total/NA	Solid	300_Prep	
885-24056-4	BH25-04 1.0'	Total/NA	Solid	300_Prep	
885-24056-5	BH25-05 0.0'	Total/NA	Solid	300_Prep	
885-24056-6	BH25-05 1.0'	Total/NA	Solid	300_Prep	
MB 885-25451/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25451/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-24056-1 MS	BH25-02 0.0'	Total/NA	Solid	300_Prep	
885-24056-1 MSD	BH25-02 0.0'	Total/NA	Solid	300_Prep	
885-24056-2 MS	BH25-02 1.0'	Total/NA	Solid	300_Prep	
885-24056-2 MSD	BH25-02 1.0'	Total/NA	Solid	300_Prep	

Analysis Batch: 25454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	300.0	25451
885-24056-2	BH25-02 1.0'	Total/NA	Solid	300.0	25451
885-24056-3	BH25-04 0.0'	Total/NA	Solid	300.0	25451
885-24056-4	BH25-04 1.0'	Total/NA	Solid	300.0	25451
885-24056-5	BH25-05 0.0'	Total/NA	Solid	300.0	25451
885-24056-6	BH25-05 1.0'	Total/NA	Solid	300.0	25451
MB 885-25451/1-A	Method Blank	Total/NA	Solid	300.0	25451
LCS 885-25451/2-A	Lab Control Sample	Total/NA	Solid	300.0	25451
885-24056-1 MS	BH25-02 0.0'	Total/NA	Solid	300.0	25451
885-24056-1 MSD	BH25-02 0.0'	Total/NA	Solid	300.0	25451
885-24056-2 MS	BH25-02 1.0'	Total/NA	Solid	300.0	25451
885-24056-2 MSD	BH25-02 1.0'	Total/NA	Solid	300.0	25451

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

Client Sample ID: BH25-02 0.0'

Lab Sample ID: 885-24056-1

Date Collected: 04/28/25 09:40

Matrix: Solid

Date Received: 05/01/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8015M/D		1	25508	AT	EET ALB	05/05/25 13:14
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8021B		1	25509	AT	EET ALB	05/05/25 13:14
Total/NA	Prep	SHAKE			25425	MI	EET ALB	05/02/25 12:56
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 21:15
Total/NA	Prep	300_Prep			25451	JT	EET ALB	05/04/25 13:07
Total/NA	Analysis	300.0		20	25454	RC	EET ALB	05/05/25 08:55

Client Sample ID: BH25-02 1.0'

Lab Sample ID: 885-24056-2

Date Collected: 04/28/25 09:55

Matrix: Solid

Date Received: 05/01/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8015M/D		1	25508	AT	EET ALB	05/05/25 14:19
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8021B		1	25509	AT	EET ALB	05/05/25 14:19
Total/NA	Prep	SHAKE			25425	MI	EET ALB	05/02/25 12:56
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 21:48
Total/NA	Prep	300_Prep			25451	JT	EET ALB	05/04/25 13:07
Total/NA	Analysis	300.0		20	25454	RC	EET ALB	05/05/25 09:25

Client Sample ID: BH25-04 0.0'

Lab Sample ID: 885-24056-3

Date Collected: 04/28/25 13:10

Matrix: Solid

Date Received: 05/01/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8015M/D		1	25508	AT	EET ALB	05/05/25 15:24
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8021B		1	25509	AT	EET ALB	05/05/25 15:24
Total/NA	Prep	SHAKE			25425	MI	EET ALB	05/02/25 12:56
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 21:58
Total/NA	Prep	300_Prep			25451	JT	EET ALB	05/04/25 13:07
Total/NA	Analysis	300.0		20	25454	RC	EET ALB	05/05/25 10:14

Client Sample ID: BH25-04 1.0'

Lab Sample ID: 885-24056-4

Date Collected: 04/28/25 13:20

Matrix: Solid

Date Received: 05/01/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8015M/D		1	25508	AT	EET ALB	05/05/25 15:46

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

Client Sample ID: BH25-04 1.0'
Date Collected: 04/28/25 13:20
Date Received: 05/01/25 08:10

Lab Sample ID: 885-24056-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8021B		1	25509	AT	EET ALB	05/05/25 15:46
Total/NA	Prep	SHAKE			25425	MI	EET ALB	05/02/25 12:56
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 22:09
Total/NA	Prep	300_Prep			25451	JT	EET ALB	05/04/25 13:07
Total/NA	Analysis	300.0		20	25454	RC	EET ALB	05/05/25 10:24

Client Sample ID: BH25-05 0.0'
Date Collected: 04/28/25 13:25
Date Received: 05/01/25 08:10

Lab Sample ID: 885-24056-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8015M/D		1	25508	AT	EET ALB	05/05/25 16:07
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8021B		1	25509	AT	EET ALB	05/05/25 16:07
Total/NA	Prep	SHAKE			25425	MI	EET ALB	05/02/25 12:56
Total/NA	Analysis	8015M/D		2	25385	MI	EET ALB	05/02/25 22:20
Total/NA	Prep	300_Prep			25451	JT	EET ALB	05/04/25 13:07
Total/NA	Analysis	300.0		20	25454	RC	EET ALB	05/05/25 10:33

Client Sample ID: BH25-05 1.0'
Date Collected: 04/28/25 14:00
Date Received: 05/01/25 08:10

Lab Sample ID: 885-24056-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8015M/D		1	25508	AT	EET ALB	05/05/25 16:29
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8021B		1	25509	AT	EET ALB	05/05/25 16:29
Total/NA	Prep	SHAKE			25425	MI	EET ALB	05/02/25 12:56
Total/NA	Analysis	8015M/D		1	25545	MI	EET ALB	05/06/25 16:19
Total/NA	Prep	300_Prep			25451	JT	EET ALB	05/04/25 13:07
Total/NA	Analysis	300.0		20	25454	RC	EET ALB	05/05/25 10:43

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24056-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Chain-of-Custody Record

Client: Vertex (Bill to Mack Energy, Matt Buckles)Mailing Address: On file

Phone #:

email or Fax#:

QA/QC Package:

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

Turn-Around Time:

☒ Standard☒ Rush5 Day

Project Name:

B Lee State #006

Project #:

25A-01934

Project Manager:

Sally CarttarScarttar@vertexresource.com

Sampler:

On Ice: ☒ Yes ☐ No# of Coolers: 1chuckCooler Temp (including CF): 1.740.2 = 1.9 (°C)Container
Type and #Preservative
Type

HEAL No.

Date Time Matrix Sample Name

Date	Time	Matrix	Sample Name
4/28/25	0940	Soil	BH25-02 0.0'
	0955		BH25-02 1.0'
	1310		BH25-04 0.0'
	1320		BH25-04 1.0'
	1325		BH25-05 0.0'
	1406	↓	BH25-05 1.0'

402

ICE

BTEX MTBE / TMB's (8021)

TPH 8015D (GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



885-24056 COC

Analysis Request

Date: Time: Relinquished by:

4/30/25 1900 ACMINNIX

Received by: Via: Date Time

ACMINNIX 4/30/25 1000

Date: Time: Relinquished by:

4/30/25 1900 ACMINNIX

Received by: Via: Date Time

ACMINNIX 5/1/25 8:10Remarks: Direct bill to Mack Energy ATTN: Matt BucklesCC: Scarttar@vertexresource.comALudvik@vertexresource.comSMinnix@vertexresource.com

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

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-24056-1

Login Number: 24056

List Source: Eurofins Albuquerque

List Number: 1

Creator: Dominguez, Desiree

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?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	



Environment Testing

- 1
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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/15/2025 10:34:13 AM

JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-24681-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.
Released to Imaging: 8/20/2025 9:51:12 AM



Eurofins Albuquerque

Job Notes

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

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)338-8812

Generated
5/15/2025 10:34:13 AM

Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-24681-1

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Definitions/Glossary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24681-1

Qualifiers

GC Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: B Lee State #006

Job ID: 885-24681-1

Job ID: 885-24681-1

Eurofins Albuquerque

Job Narrative 885-24681-1

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 5/10/2025 7:30 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 5.7°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: Surrogate recovery for the following sample was outside the upper control limit: (CCV 885-26099/82). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D_DRO: Surrogate recovery for the following samples were outside the upper control limit: BH25-11 1' (885-24681-3), (LCS 885-26029/2-A) and (MB 885-26029/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24681-1

Client Sample ID: BH25-08 1'

Lab Sample ID: 885-24681-1

Date Collected: 05/08/25 09:00

Matrix: Solid

Date Received: 05/10/25 07:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/12/25 14:05	05/13/25 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			05/12/25 14:05	05/13/25 23:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/12/25 14:05	05/13/25 23:08	1
Ethylbenzene	ND		0.048	mg/Kg		05/12/25 14:05	05/13/25 23:08	1
Toluene	ND		0.048	mg/Kg		05/12/25 14:05	05/13/25 23:08	1
Xylenes, Total	ND		0.096	mg/Kg		05/12/25 14:05	05/13/25 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			05/12/25 14:05	05/13/25 23:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/13/25 11:32	05/14/25 23:29	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/13/25 11:32	05/14/25 23:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134			05/13/25 11:32	05/14/25 23:29	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/12/25 17:09	05/13/25 11:57	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24681-1

Client Sample ID: BH25-09 0.5'

Lab Sample ID: 885-24681-2

Date Collected: 05/08/25 10:05

Matrix: Solid

Date Received: 05/10/25 07:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/12/25 14:05	05/13/25 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			05/12/25 14:05	05/13/25 23:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/12/25 14:05	05/13/25 23:30	1
Ethylbenzene	ND		0.048	mg/Kg		05/12/25 14:05	05/13/25 23:30	1
Toluene	ND		0.048	mg/Kg		05/12/25 14:05	05/13/25 23:30	1
Xylenes, Total	ND		0.095	mg/Kg		05/12/25 14:05	05/13/25 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			05/12/25 14:05	05/13/25 23:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/13/25 11:32	05/14/25 23:41	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/13/25 11:32	05/14/25 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			05/13/25 11:32	05/14/25 23:41	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	810		60	mg/Kg		05/12/25 17:09	05/13/25 12:07	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24681-1

Client Sample ID: BH25-11 1'

Lab Sample ID: 885-24681-3

Date Collected: 05/08/25 13:25

Matrix: Solid

Date Received: 05/10/25 07:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/12/25 14:05	05/13/25 23:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			05/12/25 14:05	05/13/25 23:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/12/25 14:05	05/13/25 23:52	1
Ethylbenzene	ND		0.050	mg/Kg		05/12/25 14:05	05/13/25 23:52	1
Toluene	ND		0.050	mg/Kg		05/12/25 14:05	05/13/25 23:52	1
Xylenes, Total	ND		0.10	mg/Kg		05/12/25 14:05	05/13/25 23:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			05/12/25 14:05	05/13/25 23:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		05/13/25 11:32	05/14/25 23:53	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/13/25 11:32	05/14/25 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	141	S1+	62 - 134			05/13/25 11:32	05/14/25 23:53	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/12/25 17:09	05/13/25 12:18	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24681-1

Client Sample ID: BH25-12 1'

Lab Sample ID: 885-24681-4

Date Collected: 05/08/25 10:00

Matrix: Solid

Date Received: 05/10/25 07:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/12/25 14:05	05/14/25 00:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 150			05/12/25 14:05	05/14/25 00:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/12/25 14:05	05/14/25 00:14	1
Ethylbenzene	ND		0.049	mg/Kg		05/12/25 14:05	05/14/25 00:14	1
Toluene	ND		0.049	mg/Kg		05/12/25 14:05	05/14/25 00:14	1
Xylenes, Total	ND		0.099	mg/Kg		05/12/25 14:05	05/14/25 00:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			05/12/25 14:05	05/14/25 00:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12		9.9	mg/Kg		05/13/25 11:32	05/15/25 00:05	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/13/25 11:32	05/15/25 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	124		62 - 134			05/13/25 11:32	05/15/25 00:05	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78		60	mg/Kg		05/12/25 17:09	05/13/25 12:28	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24681-1

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

Lab Sample ID: MB 885-25955/1-A

Matrix: Solid

Analysis Batch: 26052

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25955

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/12/25 14:05	05/13/25 19:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			05/12/25 14:05	05/13/25 19:31	1

Lab Sample ID: LCS 885-25955/2-A

Matrix: Solid

Analysis Batch: 26052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	29.5		mg/Kg		118	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	225		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-25955/1-A

Matrix: Solid

Analysis Batch: 26053

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25955

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/12/25 14:05	05/13/25 19:31	1
Ethylbenzene	ND		0.050	mg/Kg		05/12/25 14:05	05/13/25 19:31	1
Toluene	ND		0.050	mg/Kg		05/12/25 14:05	05/13/25 19:31	1
Xylenes, Total	ND		0.10	mg/Kg		05/12/25 14:05	05/13/25 19:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			05/12/25 14:05	05/13/25 19:31	1

Lab Sample ID: LCS 885-25955/3-A

Matrix: Solid

Analysis Batch: 26053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.01		mg/Kg		101	70 - 130
Ethylbenzene	1.00	1.02		mg/Kg		102	70 - 130
m,p-Xylene	2.00	2.06		mg/Kg		103	70 - 130
o-Xylene	1.00	1.04		mg/Kg		104	70 - 130
Toluene	1.00	0.998		mg/Kg		100	70 - 130
Xylenes, Total	3.00	3.10		mg/Kg		103	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		15 - 150				

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24681-1

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

Lab Sample ID: MB 885-26029/1-A

Matrix: Solid

Analysis Batch: 26099

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26029

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/13/25 11:32	05/14/25 19:24	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/13/25 11:32	05/14/25 19:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	195	S1+	62 - 134			05/13/25 11:32	05/14/25 19:24	1

Lab Sample ID: LCS 885-26029/2-A

Matrix: Solid

Analysis Batch: 26099

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	71.2		mg/Kg		142	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	155	S1+	62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-25976/1-A

Matrix: Solid

Analysis Batch: 25989

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25976

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/12/25 17:09	05/13/25 09:53	1
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Chloride	15.0		14.6	mg/Kg		98	90 - 110	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24681-1

GC VOA

Prep Batch: 25955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	5030C	
885-24681-2	BH25-09 0.5'	Total/NA	Solid	5030C	
885-24681-3	BH25-11 1'	Total/NA	Solid	5030C	
885-24681-4	BH25-12 1'	Total/NA	Solid	5030C	
MB 885-25955/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-25955/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-25955/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 26052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	8015M/D	25955
885-24681-2	BH25-09 0.5'	Total/NA	Solid	8015M/D	25955
885-24681-3	BH25-11 1'	Total/NA	Solid	8015M/D	25955
885-24681-4	BH25-12 1'	Total/NA	Solid	8015M/D	25955
MB 885-25955/1-A	Method Blank	Total/NA	Solid	8015M/D	25955
LCS 885-25955/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25955

Analysis Batch: 26053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	8021B	25955
885-24681-2	BH25-09 0.5'	Total/NA	Solid	8021B	25955
885-24681-3	BH25-11 1'	Total/NA	Solid	8021B	25955
885-24681-4	BH25-12 1'	Total/NA	Solid	8021B	25955
MB 885-25955/1-A	Method Blank	Total/NA	Solid	8021B	25955
LCS 885-25955/3-A	Lab Control Sample	Total/NA	Solid	8021B	25955

GC Semi VOA

Prep Batch: 26029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	SHAKE	
885-24681-2	BH25-09 0.5'	Total/NA	Solid	SHAKE	
885-24681-3	BH25-11 1'	Total/NA	Solid	SHAKE	
885-24681-4	BH25-12 1'	Total/NA	Solid	SHAKE	
MB 885-26029/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-26029/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 26099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	8015M/D	26029
885-24681-2	BH25-09 0.5'	Total/NA	Solid	8015M/D	26029
885-24681-3	BH25-11 1'	Total/NA	Solid	8015M/D	26029
885-24681-4	BH25-12 1'	Total/NA	Solid	8015M/D	26029
MB 885-26029/1-A	Method Blank	Total/NA	Solid	8015M/D	26029
LCS 885-26029/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26029

HPLC/IC

Prep Batch: 25976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	300_Prep	
885-24681-2	BH25-09 0.5'	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24681-1

HPLC/IC (Continued)

Prep Batch: 25976 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-3	BH25-11 1'	Total/NA	Solid	300_Prep	
885-24681-4	BH25-12 1'	Total/NA	Solid	300_Prep	
MB 885-25976/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25976/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 25989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	300.0	25976
885-24681-2	BH25-09 0.5'	Total/NA	Solid	300.0	25976
885-24681-3	BH25-11 1'	Total/NA	Solid	300.0	25976
885-24681-4	BH25-12 1'	Total/NA	Solid	300.0	25976
MB 885-25976/1-A	Method Blank	Total/NA	Solid	300.0	25976
LCS 885-25976/2-A	Lab Control Sample	Total/NA	Solid	300.0	25976

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24681-1

Client Sample ID: BH25-08 1'

Lab Sample ID: 885-24681-1

Date Collected: 05/08/25 09:00

Matrix: Solid

Date Received: 05/10/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8015M/D		1	26052	AT	EET ALB	05/13/25 23:08
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8021B		1	26053	AT	EET ALB	05/13/25 23:08
Total/NA	Prep	SHAKE			26029	MI	EET ALB	05/13/25 11:32
Total/NA	Analysis	8015M/D		1	26099	MI	EET ALB	05/14/25 23:29
Total/NA	Prep	300_Prep			25976	DL	EET ALB	05/12/25 17:09
Total/NA	Analysis	300.0		20	25989	DL	EET ALB	05/13/25 11:57

Client Sample ID: BH25-09 0.5'

Lab Sample ID: 885-24681-2

Date Collected: 05/08/25 10:05

Matrix: Solid

Date Received: 05/10/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8015M/D		1	26052	AT	EET ALB	05/13/25 23:30
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8021B		1	26053	AT	EET ALB	05/13/25 23:30
Total/NA	Prep	SHAKE			26029	MI	EET ALB	05/13/25 11:32
Total/NA	Analysis	8015M/D		1	26099	MI	EET ALB	05/14/25 23:41
Total/NA	Prep	300_Prep			25976	DL	EET ALB	05/12/25 17:09
Total/NA	Analysis	300.0		20	25989	DL	EET ALB	05/13/25 12:07

Client Sample ID: BH25-11 1'

Lab Sample ID: 885-24681-3

Date Collected: 05/08/25 13:25

Matrix: Solid

Date Received: 05/10/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8015M/D		1	26052	AT	EET ALB	05/13/25 23:52
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8021B		1	26053	AT	EET ALB	05/13/25 23:52
Total/NA	Prep	SHAKE			26029	MI	EET ALB	05/13/25 11:32
Total/NA	Analysis	8015M/D		1	26099	MI	EET ALB	05/14/25 23:53
Total/NA	Prep	300_Prep			25976	DL	EET ALB	05/12/25 17:09
Total/NA	Analysis	300.0		20	25989	DL	EET ALB	05/13/25 12:18

Client Sample ID: BH25-12 1'

Lab Sample ID: 885-24681-4

Date Collected: 05/08/25 10:00

Matrix: Solid

Date Received: 05/10/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8015M/D		1	26052	AT	EET ALB	05/14/25 00:14

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24681-1

Client Sample ID: BH25-12 1'
Date Collected: 05/08/25 10:00
Date Received: 05/10/25 07:30

Lab Sample ID: 885-24681-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8021B		1	26053	AT	EET ALB	05/14/25 00:14
Total/NA	Prep	SHAKE			26029	MI	EET ALB	05/13/25 11:32
Total/NA	Analysis	8015M/D		1	26099	MI	EET ALB	05/15/25 00:05
Total/NA	Prep	300_Prep			25976	DL	EET ALB	05/12/25 17:09
Total/NA	Analysis	300.0		20	25989	DL	EET ALB	05/13/25 12:28

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24681-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Released to Imaging: 8/20/2025 8:31:12 AM

Mailing Address: (On File)

Phone #: 575-343-0926

email or Fax#:

QA/QC Package:

☐ Standard

- ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC☐ Other☐ EDD (Type)

Turn-Around Time:

X Standard X Purple 5 Days

Project Name:

B Lee State #006

Project #:

25A-01934

Project Manager:

Sally Carttar

SCarttar@vertexresource.com

Sampler: Sharon Minnix

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): $5.5 + 0.2 = 5.7$ °CContainer
Type and #Preservative
Type

HEAL No.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

885-24681 COC

[illegible]

Date:	Time:	Relinquished by:
5/9/25	1100	Sharon Minnix

Received by:	Via:	Date	Time
<i>[Signature]</i>		5/1/25	1100

Remarks:	Direct Bill to Mack Energy: ATTN: Matt Buckles CC.Sally Carttar (SCarttar@vertexresource.com), Sharon Minni: (SMinnix@vertexresource.com
----------	--

Date:	Time:	Relinquished by:
5/9/05	1900	C. J. [Signature]

Received by:	Via: <i>cashier</i>	Date	Time
		<i>5/10/15</i>	<i>7.30</i>

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

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-24681-1

Login Number: 24681

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	



Environment Testing

- 1
- 2
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- 7
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- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/19/2025 7:53:15 PM

JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-24757-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)338-8812

Generated
5/19/2025 7:53:15 PM

Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-24757-1

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Definitions/Glossary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

Glossary

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

Case Narrative

Client: Vertex
Project: B Lee State #006

Job ID: 885-24757-1

Job ID: 885-24757-1

Eurofins Albuquerque

Job Narrative 885-24757-1

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 5/13/2025 7:50 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 5.0°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

Client Sample ID: BH25-13 0'

Lab Sample ID: 885-24757-1

Date Collected: 05/09/25 08:40

Matrix: Solid

Date Received: 05/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/13/25 14:11	05/17/25 00:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			05/13/25 14:11	05/17/25 00:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/13/25 14:11	05/17/25 00:51	1
Ethylbenzene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 00:51	1
Toluene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 00:51	1
Xylenes, Total	ND		0.10	mg/Kg		05/13/25 14:11	05/17/25 00:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			05/13/25 14:11	05/17/25 00:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/14/25 12:05	05/14/25 23:41	1
Motor Oil Range Organics [C28-C40]	59		49	mg/Kg		05/14/25 12:05	05/14/25 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134			05/14/25 12:05	05/14/25 23:41	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61	mg/Kg		05/14/25 08:06	05/14/25 19:32	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

Client Sample ID: BH25-13 1'

Lab Sample ID: 885-24757-2

Date Collected: 05/09/25 08:59

Matrix: Solid

Date Received: 05/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/13/25 14:11	05/17/25 01:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			05/13/25 14:11	05/17/25 01:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/13/25 14:11	05/17/25 01:56	1
Ethylbenzene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 01:56	1
Toluene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 01:56	1
Xylenes, Total	ND		0.099	mg/Kg		05/13/25 14:11	05/17/25 01:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			05/13/25 14:11	05/17/25 01:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/14/25 12:05	05/15/25 00:04	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/14/25 12:05	05/15/25 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	129		62 - 134			05/14/25 12:05	05/15/25 00:04	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59	mg/Kg		05/14/25 08:06	05/14/25 19:45	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

Client Sample ID: BH25-15 1'

Lab Sample ID: 885-24757-3

Date Collected: 05/09/25 09:45

Matrix: Solid

Date Received: 05/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/13/25 14:11	05/17/25 03:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			05/13/25 14:11	05/17/25 03:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/13/25 14:11	05/17/25 03:01	1
Ethylbenzene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 03:01	1
Toluene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 03:01	1
Xylenes, Total	ND		0.099	mg/Kg		05/13/25 14:11	05/17/25 03:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			05/13/25 14:11	05/17/25 03:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/14/25 12:05	05/15/25 00:28	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/14/25 12:05	05/15/25 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			05/14/25 12:05	05/15/25 00:28	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		60	mg/Kg		05/14/25 08:06	05/14/25 19:59	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

Client Sample ID: BH25-17 0.5'
Date Collected: 05/09/25 13:10
Date Received: 05/13/25 07:50

Lab Sample ID: 885-24757-4
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/13/25 14:11	05/17/25 03:22	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		15 - 150			05/13/25 14:11	05/17/25 03:22	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		05/13/25 14:11	05/17/25 03:22	1	
Ethylbenzene	ND		0.048	mg/Kg		05/13/25 14:11	05/17/25 03:22	1	
Toluene	ND		0.048	mg/Kg		05/13/25 14:11	05/17/25 03:22	1	
Xylenes, Total	ND		0.095	mg/Kg		05/13/25 14:11	05/17/25 03:22	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		15 - 150			05/13/25 14:11	05/17/25 03:22	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		05/14/25 12:05	05/15/25 00:51	1	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/14/25 12:05	05/15/25 00:51	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	111		62 - 134			05/14/25 12:05	05/15/25 00:51	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	62		61	mg/Kg		05/14/25 08:06	05/14/25 20:12	20	

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

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

Lab Sample ID: MB 885-26055/1-A

Matrix: Solid

Analysis Batch: 26378

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26055

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/13/25 14:11	05/17/25 00:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			05/13/25 14:11	05/17/25 00:29	1

Lab Sample ID: LCS 885-26055/2-A

Matrix: Solid

Analysis Batch: 26378

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	30.2		mg/Kg		121	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	229		15 - 150				

Lab Sample ID: 885-24757-1 MS

Matrix: Solid

Analysis Batch: 26378

Client Sample ID: BH25-13 0'

Prep Type: Total/NA

Prep Batch: 26055

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		25.0	29.0		mg/Kg		116	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	226		15 - 150						

Lab Sample ID: 885-24757-1 MSD

Matrix: Solid

Analysis Batch: 26378

Client Sample ID: BH25-13 0'

Prep Type: Total/NA

Prep Batch: 26055

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		25.0	29.0		mg/Kg		116	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	228		15 - 150								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-26055/1-A

Matrix: Solid

Analysis Batch: 26379

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26055

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/13/25 14:11	05/17/25 00:29	1
Ethylbenzene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 00:29	1
Toluene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 00:29	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

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

Lab Sample ID: MB 885-26055/1-A

Matrix: Solid

Analysis Batch: 26379

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26055

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Xylenes, Total	ND		0.10	mg/Kg		05/13/25 14:11	05/17/25 00:29	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	95		15 - 150			05/13/25 14:11	05/17/25 00:29	1

Lab Sample ID: LCS 885-26055/3-A

Matrix: Solid

Analysis Batch: 26379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26055

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	1.00	0.984		mg/Kg		98	70 - 130
Ethylbenzene	1.00	1.01		mg/Kg		101	70 - 130
m,p-Xylene	2.00	2.00		mg/Kg		100	70 - 130
o-Xylene	1.00	1.01		mg/Kg		101	70 - 130
Toluene	1.00	0.972		mg/Kg		97	70 - 130
Xylenes, Total	3.00	3.00		mg/Kg		100	70 - 130
Surrogate	LCS	LCS	Limits			%Recovery	Qualifier
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	96		15 - 150				

Lab Sample ID: 885-24757-2 MS

Matrix: Solid

Analysis Batch: 26379

Client Sample ID: BH25-13 1'

Prep Type: Total/NA

Prep Batch: 26055

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	ND		1.00	0.933		mg/Kg		93	70 - 130
Ethylbenzene	ND		1.00	0.964		mg/Kg		96	70 - 130
m,p-Xylene	ND		2.00	1.95		mg/Kg		97	70 - 130
o-Xylene	ND		1.00	0.961		mg/Kg		96	70 - 130
Toluene	ND		1.00	0.931		mg/Kg		93	70 - 130
Xylenes, Total	ND		3.00	2.91		mg/Kg		97	70 - 130
Surrogate	MS	MS	Limits			%Recovery	Qualifier		
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	93		15 - 150						

Lab Sample ID: 885-24757-2 MSD

Matrix: Solid

Analysis Batch: 26379

Client Sample ID: BH25-13 1'

Prep Type: Total/NA

Prep Batch: 26055

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	ND		0.993	0.901		mg/Kg		91	70 - 130	4	20
Ethylbenzene	ND		0.993	0.932		mg/Kg		94	70 - 130	3	20
m,p-Xylene	ND		1.99	1.89		mg/Kg		95	70 - 130	3	20
o-Xylene	ND		0.993	0.942		mg/Kg		95	70 - 130	2	20
Toluene	ND		0.993	0.907		mg/Kg		91	70 - 130	3	20
Xylenes, Total	ND		2.98	2.83		mg/Kg		95	70 - 130	3	20

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

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

Lab Sample ID: 885-24757-2 MSD

Matrix: Solid

Analysis Batch: 26379

Client Sample ID: BH25-13 1'

Prep Type: Total/NA

Prep Batch: 26055

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		15 - 150

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

Lab Sample ID: MB 885-26130/1-A

Matrix: Solid

Analysis Batch: 26100

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26130

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/14/25 11:41	05/14/25 14:13	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/14/25 11:41	05/14/25 14:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			05/14/25 11:41	05/14/25 14:13	1

Lab Sample ID: LCS 885-26130/2-A

Matrix: Solid

Analysis Batch: 26100

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	45.9		mg/Kg		92	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	104		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-26093/1-A

Matrix: Solid

Analysis Batch: 26117

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26093

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/14/25 08:06	05/14/25 10:54	1

Lab Sample ID: LCS 885-26093/2-A

Matrix: Solid

Analysis Batch: 26117

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	15.3		mg/Kg		102	90 - 110

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QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

GC VOA

Prep Batch: 26055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	5030C	
885-24757-2	BH25-13 1'	Total/NA	Solid	5030C	
885-24757-3	BH25-15 1'	Total/NA	Solid	5030C	
885-24757-4	BH25-17 0.5'	Total/NA	Solid	5030C	
MB 885-26055/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-26055/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-26055/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-24757-1 MS	BH25-13 0'	Total/NA	Solid	5030C	
885-24757-1 MSD	BH25-13 0'	Total/NA	Solid	5030C	
885-24757-2 MS	BH25-13 1'	Total/NA	Solid	5030C	
885-24757-2 MSD	BH25-13 1'	Total/NA	Solid	5030C	

Analysis Batch: 26378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	8015M/D	26055
885-24757-2	BH25-13 1'	Total/NA	Solid	8015M/D	26055
885-24757-3	BH25-15 1'	Total/NA	Solid	8015M/D	26055
885-24757-4	BH25-17 0.5'	Total/NA	Solid	8015M/D	26055
MB 885-26055/1-A	Method Blank	Total/NA	Solid	8015M/D	26055
LCS 885-26055/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26055
885-24757-1 MS	BH25-13 0'	Total/NA	Solid	8015M/D	26055
885-24757-1 MSD	BH25-13 0'	Total/NA	Solid	8015M/D	26055

Analysis Batch: 26379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	8021B	26055
885-24757-2	BH25-13 1'	Total/NA	Solid	8021B	26055
885-24757-3	BH25-15 1'	Total/NA	Solid	8021B	26055
885-24757-4	BH25-17 0.5'	Total/NA	Solid	8021B	26055
MB 885-26055/1-A	Method Blank	Total/NA	Solid	8021B	26055
LCS 885-26055/3-A	Lab Control Sample	Total/NA	Solid	8021B	26055
885-24757-2 MS	BH25-13 1'	Total/NA	Solid	8021B	26055
885-24757-2 MSD	BH25-13 1'	Total/NA	Solid	8021B	26055

GC Semi VOA

Analysis Batch: 26100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	8015M/D	26130
885-24757-2	BH25-13 1'	Total/NA	Solid	8015M/D	26130
885-24757-3	BH25-15 1'	Total/NA	Solid	8015M/D	26130
885-24757-4	BH25-17 0.5'	Total/NA	Solid	8015M/D	26130
MB 885-26130/1-A	Method Blank	Total/NA	Solid	8015M/D	26130
LCS 885-26130/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26130

Prep Batch: 26130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	SHAKE	
885-24757-2	BH25-13 1'	Total/NA	Solid	SHAKE	
885-24757-3	BH25-15 1'	Total/NA	Solid	SHAKE	
885-24757-4	BH25-17 0.5'	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

GC Semi VOA (Continued)

Prep Batch: 26130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-26130/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-26130/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 26093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	300_Prep	
885-24757-2	BH25-13 1'	Total/NA	Solid	300_Prep	
885-24757-3	BH25-15 1'	Total/NA	Solid	300_Prep	
885-24757-4	BH25-17 0.5'	Total/NA	Solid	300_Prep	
MB 885-26093/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-26093/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 26117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	300.0	26093
885-24757-2	BH25-13 1'	Total/NA	Solid	300.0	26093
885-24757-3	BH25-15 1'	Total/NA	Solid	300.0	26093
885-24757-4	BH25-17 0.5'	Total/NA	Solid	300.0	26093
MB 885-26093/1-A	Method Blank	Total/NA	Solid	300.0	26093
LCS 885-26093/2-A	Lab Control Sample	Total/NA	Solid	300.0	26093

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

Client Sample ID: BH25-13 0'
Date Collected: 05/09/25 08:40
Date Received: 05/13/25 07:50

Lab Sample ID: 885-24757-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8015M/D		1	26378	AT	EET ALB	05/17/25 00:51
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8021B		1	26379	AT	EET ALB	05/17/25 00:51
Total/NA	Prep	SHAKE			26130	MI	EET ALB	05/14/25 12:05
Total/NA	Analysis	8015M/D		1	26100	EM	EET ALB	05/14/25 23:41
Total/NA	Prep	300_Prep			26093	DL	EET ALB	05/14/25 08:06
Total/NA	Analysis	300.0		20	26117	DL	EET ALB	05/14/25 19:32

Client Sample ID: BH25-13 1'
Date Collected: 05/09/25 08:59
Date Received: 05/13/25 07:50

Lab Sample ID: 885-24757-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8015M/D		1	26378	AT	EET ALB	05/17/25 01:56
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8021B		1	26379	AT	EET ALB	05/17/25 01:56
Total/NA	Prep	SHAKE			26130	MI	EET ALB	05/14/25 12:05
Total/NA	Analysis	8015M/D		1	26100	EM	EET ALB	05/15/25 00:04
Total/NA	Prep	300_Prep			26093	DL	EET ALB	05/14/25 08:06
Total/NA	Analysis	300.0		20	26117	DL	EET ALB	05/14/25 19:45

Client Sample ID: BH25-15 1'
Date Collected: 05/09/25 09:45
Date Received: 05/13/25 07:50

Lab Sample ID: 885-24757-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8015M/D		1	26378	AT	EET ALB	05/17/25 03:01
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8021B		1	26379	AT	EET ALB	05/17/25 03:01
Total/NA	Prep	SHAKE			26130	MI	EET ALB	05/14/25 12:05
Total/NA	Analysis	8015M/D		1	26100	EM	EET ALB	05/15/25 00:28
Total/NA	Prep	300_Prep			26093	DL	EET ALB	05/14/25 08:06
Total/NA	Analysis	300.0		20	26117	DL	EET ALB	05/14/25 19:59

Client Sample ID: BH25-17 0.5'
Date Collected: 05/09/25 13:10
Date Received: 05/13/25 07:50

Lab Sample ID: 885-24757-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8015M/D		1	26378	AT	EET ALB	05/17/25 03:22

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

Client Sample ID: BH25-17 0.5'
Date Collected: 05/09/25 13:10
Date Received: 05/13/25 07:50

Lab Sample ID: 885-24757-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8021B		1	26379	AT	EET ALB	05/17/25 03:22
Total/NA	Prep	SHAKE			26130	MI	EET ALB	05/14/25 12:05
Total/NA	Analysis	8015M/D		1	26100	EM	EET ALB	05/15/25 00:51
Total/NA	Prep	300_Prep			26093	DL	EET ALB	05/14/25 08:06
Total/NA	Analysis	300.0		20	26117	DL	EET ALB	05/14/25 20:12

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-24757-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

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Age Group	Number of People
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-24757-1

Login Number: 24757

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/21/2025 3:25:08 PM

JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-25054-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.
Released to Imaging: 8/20/2025 3:51:12 AM



Eurofins Albuquerque

Job Notes

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

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)338-8812

Generated
5/21/2025 3:25:08 PM

Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-25054-1

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Definitions/Glossary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-25054-1

Glossary

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

Case Narrative

Client: Vertex
Project: B Lee State #006

Job ID: 885-25054-1

Job ID: 885-25054-1

Eurofins Albuquerque

Job Narrative 885-25054-1

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 5/16/2025 7:45 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 3.4°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-25054-1

Client Sample ID: BH25-18 1'

Lab Sample ID: 885-25054-1

Date Collected: 05/13/25 08:40

Matrix: Solid

Date Received: 05/16/25 07:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/16/25 11:37	05/19/25 16:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			05/16/25 11:37	05/19/25 16:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/16/25 11:37	05/20/25 14:54	1
Ethylbenzene	ND		0.050	mg/Kg		05/16/25 11:37	05/20/25 14:54	1
Toluene	ND		0.050	mg/Kg		05/16/25 11:37	05/20/25 14:54	1
Xylenes, Total	ND		0.099	mg/Kg		05/16/25 11:37	05/20/25 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			05/16/25 11:37	05/20/25 14:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/16/25 13:35	05/19/25 13:56	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/16/25 13:35	05/19/25 13:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			05/16/25 13:35	05/19/25 13:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/19/25 08:26	05/19/25 17:51	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-25054-1

Client Sample ID: BH25-20 0.5'

Lab Sample ID: 885-25054-2

Date Collected: 05/13/25 08:59

Matrix: Solid

Date Received: 05/16/25 07:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/16/25 11:37	05/19/25 17:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			05/16/25 11:37	05/19/25 17:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/16/25 11:37	05/20/25 15:16	1
Ethylbenzene	ND		0.050	mg/Kg		05/16/25 11:37	05/20/25 15:16	1
Toluene	ND		0.050	mg/Kg		05/16/25 11:37	05/20/25 15:16	1
Xylenes, Total	ND		0.099	mg/Kg		05/16/25 11:37	05/20/25 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			05/16/25 11:37	05/20/25 15:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.5	mg/Kg		05/16/25 13:35	05/19/25 14:07	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		05/16/25 13:35	05/19/25 14:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			05/16/25 13:35	05/19/25 14:07	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	830		60	mg/Kg		05/19/25 08:26	05/19/25 18:04	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-25054-1

Client Sample ID: BH25-21 1'

Lab Sample ID: 885-25054-3

Date Collected: 05/13/25 09:45

Matrix: Solid

Date Received: 05/16/25 07:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/16/25 11:37	05/19/25 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			05/16/25 11:37	05/19/25 17:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/16/25 11:37	05/20/25 15:38	1
Ethylbenzene	ND		0.049	mg/Kg		05/16/25 11:37	05/20/25 15:38	1
Toluene	ND		0.049	mg/Kg		05/16/25 11:37	05/20/25 15:38	1
Xylenes, Total	ND		0.099	mg/Kg		05/16/25 11:37	05/20/25 15:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			05/16/25 11:37	05/20/25 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/16/25 13:35	05/19/25 14:18	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/16/25 13:35	05/19/25 14:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134			05/16/25 13:35	05/19/25 14:18	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/19/25 08:26	05/19/25 18:17	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-25054-1

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

Lab Sample ID: MB 885-26341/1-A

Matrix: Solid

Analysis Batch: 26476

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26341

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/16/25 11:36	05/19/25 12:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			05/16/25 11:36	05/19/25 12:51	1

Lab Sample ID: LCS 885-26341/2-A

Matrix: Solid

Analysis Batch: 26476

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	29.6		mg/Kg		118	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	235		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-26341/1-A

Matrix: Solid

Analysis Batch: 26529

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26341

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/16/25 11:36	05/20/25 11:18	1
Ethylbenzene	ND		0.050	mg/Kg		05/16/25 11:36	05/20/25 11:18	1
Toluene	ND		0.050	mg/Kg		05/16/25 11:36	05/20/25 11:18	1
Xylenes, Total	ND		0.10	mg/Kg		05/16/25 11:36	05/20/25 11:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			05/16/25 11:36	05/20/25 11:18	1

Lab Sample ID: LCS 885-26341/3-A

Matrix: Solid

Analysis Batch: 26529

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.880		mg/Kg		88	70 - 130
Ethylbenzene	1.00	0.901		mg/Kg		90	70 - 130
m,p-Xylene	2.00	1.84		mg/Kg		92	70 - 130
o-Xylene	1.00	0.900		mg/Kg		90	70 - 130
Toluene	1.00	0.885		mg/Kg		89	70 - 130
Xylenes, Total	3.00	2.74		mg/Kg		91	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	95		15 - 150				

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-25054-1

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

Lab Sample ID: MB 885-26350/1-A

Matrix: Solid

Analysis Batch: 26453

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26350

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/16/25 13:35	05/19/25 11:49	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/16/25 13:35	05/19/25 11:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134			05/16/25 13:35	05/19/25 11:49	1

Lab Sample ID: LCS 885-26350/2-A

Matrix: Solid

Analysis Batch: 26453

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	56.5		mg/Kg		113	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	122		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-26422/1-A

Matrix: Solid

Analysis Batch: 26430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26422

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/19/25 08:26	05/19/25 14:20	1
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Chloride	15.0		15.3	mg/Kg		102	90 - 110	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-25054-1

GC VOA

Prep Batch: 26341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25054-1	BH25-18 1'	Total/NA	Solid	5030C	
885-25054-2	BH25-20 0.5'	Total/NA	Solid	5030C	
885-25054-3	BH25-21 1'	Total/NA	Solid	5030C	
MB 885-26341/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-26341/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-26341/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 26476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25054-1	BH25-18 1'	Total/NA	Solid	8015M/D	26341
885-25054-2	BH25-20 0.5'	Total/NA	Solid	8015M/D	26341
885-25054-3	BH25-21 1'	Total/NA	Solid	8015M/D	26341
MB 885-26341/1-A	Method Blank	Total/NA	Solid	8015M/D	26341
LCS 885-26341/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26341

Analysis Batch: 26529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25054-1	BH25-18 1'	Total/NA	Solid	8021B	26341
885-25054-2	BH25-20 0.5'	Total/NA	Solid	8021B	26341
885-25054-3	BH25-21 1'	Total/NA	Solid	8021B	26341
MB 885-26341/1-A	Method Blank	Total/NA	Solid	8021B	26341
LCS 885-26341/3-A	Lab Control Sample	Total/NA	Solid	8021B	26341

GC Semi VOA

Prep Batch: 26350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25054-1	BH25-18 1'	Total/NA	Solid	SHAKE	
885-25054-2	BH25-20 0.5'	Total/NA	Solid	SHAKE	
885-25054-3	BH25-21 1'	Total/NA	Solid	SHAKE	
MB 885-26350/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-26350/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 26453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25054-1	BH25-18 1'	Total/NA	Solid	8015M/D	26350
885-25054-2	BH25-20 0.5'	Total/NA	Solid	8015M/D	26350
885-25054-3	BH25-21 1'	Total/NA	Solid	8015M/D	26350
MB 885-26350/1-A	Method Blank	Total/NA	Solid	8015M/D	26350
LCS 885-26350/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26350

HPLC/IC

Prep Batch: 26422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25054-1	BH25-18 1'	Total/NA	Solid	300_Prep	
885-25054-2	BH25-20 0.5'	Total/NA	Solid	300_Prep	
885-25054-3	BH25-21 1'	Total/NA	Solid	300_Prep	
MB 885-26422/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-26422/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-25054-1

HPLC/IC

Analysis Batch: 26430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25054-1	BH25-18 1'	Total/NA	Solid	300.0	26422
885-25054-2	BH25-20 0.5'	Total/NA	Solid	300.0	26422
885-25054-3	BH25-21 1'	Total/NA	Solid	300.0	26422
MB 885-26422/1-A	Method Blank	Total/NA	Solid	300.0	26422
LCS 885-26422/2-A	Lab Control Sample	Total/NA	Solid	300.0	26422

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-25054-1

Client Sample ID: BH25-18 1'
Date Collected: 05/13/25 08:40
Date Received: 05/16/25 07:45

Lab Sample ID: 885-25054-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26341	JE	EET ALB	05/16/25 11:37
Total/NA	Analysis	8015M/D		1	26476	AT	EET ALB	05/19/25 16:50
Total/NA	Prep	5030C			26341	JE	EET ALB	05/16/25 11:37
Total/NA	Analysis	8021B		1	26529	AT	EET ALB	05/20/25 14:54
Total/NA	Prep	SHAKE			26350	JM	EET ALB	05/16/25 13:35
Total/NA	Analysis	8015M/D		1	26453	MB	EET ALB	05/19/25 13:56
Total/NA	Prep	300_Prep			26422	DL	EET ALB	05/19/25 08:26
Total/NA	Analysis	300.0		20	26430	MA	EET ALB	05/19/25 17:51

Client Sample ID: BH25-20 0.5'
Date Collected: 05/13/25 08:59
Date Received: 05/16/25 07:45

Lab Sample ID: 885-25054-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26341	JE	EET ALB	05/16/25 11:37
Total/NA	Analysis	8015M/D		1	26476	AT	EET ALB	05/19/25 17:12
Total/NA	Prep	5030C			26341	JE	EET ALB	05/16/25 11:37
Total/NA	Analysis	8021B		1	26529	AT	EET ALB	05/20/25 15:16
Total/NA	Prep	SHAKE			26350	JM	EET ALB	05/16/25 13:35
Total/NA	Analysis	8015M/D		1	26453	MB	EET ALB	05/19/25 14:07
Total/NA	Prep	300_Prep			26422	DL	EET ALB	05/19/25 08:26
Total/NA	Analysis	300.0		20	26430	MA	EET ALB	05/19/25 18:04

Client Sample ID: BH25-21 1'
Date Collected: 05/13/25 09:45
Date Received: 05/16/25 07:45

Lab Sample ID: 885-25054-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26341	JE	EET ALB	05/16/25 11:37
Total/NA	Analysis	8015M/D		1	26476	AT	EET ALB	05/19/25 17:34
Total/NA	Prep	5030C			26341	JE	EET ALB	05/16/25 11:37
Total/NA	Analysis	8021B		1	26529	AT	EET ALB	05/20/25 15:38
Total/NA	Prep	SHAKE			26350	JM	EET ALB	05/16/25 13:35
Total/NA	Analysis	8015M/D		1	26453	MB	EET ALB	05/19/25 14:18
Total/NA	Prep	300_Prep			26422	DL	EET ALB	05/19/25 08:26
Total/NA	Analysis	300.0		20	26430	MA	EET ALB	05/19/25 18:17

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-25054-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-25054-1

Login Number: 25054

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-26495-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.
Released to Imaging: 8/20/2025 3:51:12 PM



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Job Notes

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

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)338-8812

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6/13/2025 3:19:21 PM

Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-26495-1

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Definitions/Glossary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

Qualifiers

GC Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: B Lee State #006

Job ID: 885-26495-1

Job ID: 885-26495-1

Eurofins Albuquerque

Job Narrative 885-26495-1

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 6/11/2025 7:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): BH25-07 2' (885-26495-1), BH25-07 4' (885-26495-2), WS25-01 0-3' (885-26495-3), WS25-02 0-3' (885-26495-4), BS25-01 3' (885-26495-5) and BS25-02 3' (885-26495-6). The container labels list A COLLECTION DATE OF 6/5 AND A TIME OF 1100 while the COC 6/8 AND A COLLECTION TIME OF 1300. The client was contacted, and the lab was instructed to GO WITH WHAT IS ON THE coc.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: Surrogate recovery for the following sample was outside the upper control limit: WS25-02 0-3' (885-26495-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D_DRO: Surrogate recovery for the following samples is outside the upper control limit: (CCV 885-28149/17), (CCV 885-28149/29), (CCV 885-28149/3), (CCV 885-28149/6) and (CCVRT 885-28149/2). Corresponding CCV has high surrogate. However, samples have acceptable surrogate within range. Therefore, data is reportable.

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

Client Sample ID: BH25-07 2'

Lab Sample ID: 885-26495-1

Date Collected: 06/08/25 11:00

Matrix: Solid

Date Received: 06/11/25 07:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/11/25 12:11	06/13/25 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			06/11/25 12:11	06/13/25 00:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 12:11	06/13/25 00:19	1
Ethylbenzene	ND		0.050	mg/Kg		06/11/25 12:11	06/13/25 00:19	1
Toluene	ND		0.050	mg/Kg		06/11/25 12:11	06/13/25 00:19	1
Xylenes, Total	ND		0.099	mg/Kg		06/11/25 12:11	06/13/25 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/11/25 12:11	06/13/25 00:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/12/25 09:00	06/12/25 17:21	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/12/25 09:00	06/12/25 17:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	131		62 - 134			06/12/25 09:00	06/12/25 17:21	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		60	mg/Kg		06/12/25 11:33	06/12/25 19:02	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

Client Sample ID: BH25-07 4'

Lab Sample ID: 885-26495-2

Date Collected: 06/09/25 09:30

Matrix: Solid

Date Received: 06/11/25 07:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/11/25 12:11	06/13/25 01:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			06/11/25 12:11	06/13/25 01:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 12:11	06/13/25 01:31	1
Ethylbenzene	ND		0.050	mg/Kg		06/11/25 12:11	06/13/25 01:31	1
Toluene	ND		0.050	mg/Kg		06/11/25 12:11	06/13/25 01:31	1
Xylenes, Total	ND		0.10	mg/Kg		06/11/25 12:11	06/13/25 01:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			06/11/25 12:11	06/13/25 01:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		06/12/25 09:00	06/12/25 17:45	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		06/12/25 09:00	06/12/25 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	127		62 - 134			06/12/25 09:00	06/12/25 17:45	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	610		60	mg/Kg		06/12/25 11:33	06/12/25 19:13	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

Client Sample ID: WS25-01 0-3'

Lab Sample ID: 885-26495-3

Date Collected: 06/09/25 12:20

Matrix: Solid

Date Received: 06/11/25 07:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		06/11/25 12:11	06/13/25 02:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 150			06/11/25 12:11	06/13/25 02:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 12:11	06/13/25 02:43	1
Ethylbenzene	ND		0.049	mg/Kg		06/11/25 12:11	06/13/25 02:43	1
Toluene	ND		0.049	mg/Kg		06/11/25 12:11	06/13/25 02:43	1
Xylenes, Total	ND		0.099	mg/Kg		06/11/25 12:11	06/13/25 02:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			06/11/25 12:11	06/13/25 02:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		06/12/25 09:00	06/12/25 18:09	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/12/25 09:00	06/12/25 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	132		62 - 134			06/12/25 09:00	06/12/25 18:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/12/25 11:33	06/12/25 19:23	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

Client Sample ID: WS25-02 0-3'

Lab Sample ID: 885-26495-4

Date Collected: 06/09/25 13:00

Matrix: Solid

Date Received: 06/11/25 07:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/11/25 12:11	06/13/25 03:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			06/11/25 12:11	06/13/25 03:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 12:11	06/13/25 03:06	1
Ethylbenzene	ND		0.050	mg/Kg		06/11/25 12:11	06/13/25 03:06	1
Toluene	ND		0.050	mg/Kg		06/11/25 12:11	06/13/25 03:06	1
Xylenes, Total	ND		0.099	mg/Kg		06/11/25 12:11	06/13/25 03:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			06/11/25 12:11	06/13/25 03:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/12/25 09:00	06/12/25 18:33	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/12/25 09:00	06/12/25 18:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	135	S1+	62 - 134			06/12/25 09:00	06/12/25 18:33	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62		60	mg/Kg		06/12/25 11:33	06/12/25 19:33	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

Client Sample ID: BS25-01 3'

Lab Sample ID: 885-26495-5

Date Collected: 06/09/25 13:30

Matrix: Solid

Date Received: 06/11/25 07:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		06/11/25 12:13	06/13/25 03:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			06/11/25 12:13	06/13/25 03:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 12:13	06/13/25 03:30	1
Ethylbenzene	ND		0.049	mg/Kg		06/11/25 12:13	06/13/25 03:30	1
Toluene	ND		0.049	mg/Kg		06/11/25 12:13	06/13/25 03:30	1
Xylenes, Total	ND		0.098	mg/Kg		06/11/25 12:13	06/13/25 03:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			06/11/25 12:13	06/13/25 03:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		06/12/25 09:00	06/12/25 18:57	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/12/25 09:00	06/12/25 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	124		62 - 134			06/12/25 09:00	06/12/25 18:57	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62		60	mg/Kg		06/12/25 11:33	06/12/25 19:44	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

Client Sample ID: BS25-02 3'

Lab Sample ID: 885-26495-6

Date Collected: 06/09/25 13:35

Matrix: Solid

Date Received: 06/11/25 07:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		06/11/25 12:13	06/13/25 03:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			06/11/25 12:13	06/13/25 03:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 12:13	06/13/25 03:54	1
Ethylbenzene	ND		0.049	mg/Kg		06/11/25 12:13	06/13/25 03:54	1
Toluene	ND		0.049	mg/Kg		06/11/25 12:13	06/13/25 03:54	1
Xylenes, Total	ND		0.099	mg/Kg		06/11/25 12:13	06/13/25 03:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			06/11/25 12:13	06/13/25 03:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/12/25 09:00	06/12/25 19:21	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/12/25 09:00	06/12/25 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	127		62 - 134			06/12/25 09:00	06/12/25 19:21	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		60	mg/Kg		06/12/25 11:33	06/12/25 20:15	20

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

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

Lab Sample ID: MB 885-28031/1-A

Matrix: Solid

Analysis Batch: 28205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28031

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/11/25 08:03	06/12/25 23:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			06/11/25 08:03	06/12/25 23:55	1

Lab Sample ID: LCS 885-28031/2-A

Matrix: Solid

Analysis Batch: 28205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	24.2		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	208		15 - 150				

Lab Sample ID: 885-26495-1 MS

Matrix: Solid

Analysis Batch: 28205

Client Sample ID: BH25-07 2'

Prep Type: Total/NA

Prep Batch: 28031

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		24.9	30.6		mg/Kg		123	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	237		15 - 150						

Lab Sample ID: 885-26495-1 MSD

Matrix: Solid

Analysis Batch: 28205

Client Sample ID: BH25-07 2'

Prep Type: Total/NA

Prep Batch: 28031

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		25.0	28.9		mg/Kg		116	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	229		15 - 150								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28031/1-A

Matrix: Solid

Analysis Batch: 28204

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28031

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 08:03	06/12/25 23:55	1
Ethylbenzene	ND		0.050	mg/Kg		06/11/25 08:03	06/12/25 23:55	1
Toluene	ND		0.050	mg/Kg		06/11/25 08:03	06/12/25 23:55	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

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

Lab Sample ID: MB 885-28031/1-A

Matrix: Solid

Analysis Batch: 28204

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28031

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		06/11/25 08:03	06/12/25 23:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/11/25 08:03	06/12/25 23:55	1

Lab Sample ID: LCS 885-28031/10-A

Matrix: Solid

Analysis Batch: 28204

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.00		mg/Kg		100	70 - 130
Ethylbenzene	1.00	0.997		mg/Kg		100	70 - 130
m,p-Xylene	2.00	2.09		mg/Kg		104	70 - 130
o-Xylene	1.00	1.00		mg/Kg		100	70 - 130
Toluene	1.00	0.992		mg/Kg		99	70 - 130
Xylenes, Total	3.00	3.09		mg/Kg		103	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	103		15 - 150				

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

Lab Sample ID: MB 885-28130/1-A

Matrix: Solid

Analysis Batch: 28149

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28130

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/12/25 09:00	06/12/25 12:32	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/12/25 09:00	06/12/25 12:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134			06/12/25 09:00	06/12/25 12:32	1

Lab Sample ID: LCS 885-28130/2-A

Matrix: Solid

Analysis Batch: 28149

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	46.1		mg/Kg		92	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	128		62 - 134				

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-28163/1-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 28199					Prep Batch: 28163				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		1.5	mg/Kg		06/12/25 11:33	06/12/25 16:00	1	

Lab Sample ID: LCS 885-28163/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 28199					Prep Batch: 28163				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	15.0	15.0		mg/Kg		100	90 - 110		

Lab Sample ID: MRL 885-28199/5					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 28199									
Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	0.500	0.521		mg/L		104	50 - 150		

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

GC VOA

Prep Batch: 28031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	5030C	
885-26495-2	BH25-07 4'	Total/NA	Solid	5030C	
885-26495-3	WS25-01 0-3'	Total/NA	Solid	5030C	
885-26495-4	WS25-02 0-3'	Total/NA	Solid	5030C	
885-26495-5	BS25-01 3'	Total/NA	Solid	5030C	
885-26495-6	BS25-02 3'	Total/NA	Solid	5030C	
MB 885-28031/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28031/10-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28031/2-A	Lab Control Sample	Total/NA	Solid	5030C	
885-26495-1 MS	BH25-07 2'	Total/NA	Solid	5030C	
885-26495-1 MSD	BH25-07 2'	Total/NA	Solid	5030C	

Analysis Batch: 28204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	8021B	28031
885-26495-2	BH25-07 4'	Total/NA	Solid	8021B	28031
885-26495-3	WS25-01 0-3'	Total/NA	Solid	8021B	28031
885-26495-4	WS25-02 0-3'	Total/NA	Solid	8021B	28031
885-26495-5	BS25-01 3'	Total/NA	Solid	8021B	28031
885-26495-6	BS25-02 3'	Total/NA	Solid	8021B	28031
MB 885-28031/1-A	Method Blank	Total/NA	Solid	8021B	28031
LCS 885-28031/10-A	Lab Control Sample	Total/NA	Solid	8021B	28031

Analysis Batch: 28205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	8015M/D	28031
885-26495-2	BH25-07 4'	Total/NA	Solid	8015M/D	28031
885-26495-3	WS25-01 0-3'	Total/NA	Solid	8015M/D	28031
885-26495-4	WS25-02 0-3'	Total/NA	Solid	8015M/D	28031
885-26495-5	BS25-01 3'	Total/NA	Solid	8015M/D	28031
885-26495-6	BS25-02 3'	Total/NA	Solid	8015M/D	28031
MB 885-28031/1-A	Method Blank	Total/NA	Solid	8015M/D	28031
LCS 885-28031/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28031
885-26495-1 MS	BH25-07 2'	Total/NA	Solid	8015M/D	28031
885-26495-1 MSD	BH25-07 2'	Total/NA	Solid	8015M/D	28031

GC Semi VOA

Prep Batch: 28130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	SHAKE	
885-26495-2	BH25-07 4'	Total/NA	Solid	SHAKE	
885-26495-3	WS25-01 0-3'	Total/NA	Solid	SHAKE	
885-26495-4	WS25-02 0-3'	Total/NA	Solid	SHAKE	
885-26495-5	BS25-01 3'	Total/NA	Solid	SHAKE	
885-26495-6	BS25-02 3'	Total/NA	Solid	SHAKE	
MB 885-28130/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28130/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

GC Semi VOA

Analysis Batch: 28149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	8015M/D	28130
885-26495-2	BH25-07 4'	Total/NA	Solid	8015M/D	28130
885-26495-3	WS25-01 0-3'	Total/NA	Solid	8015M/D	28130
885-26495-4	WS25-02 0-3'	Total/NA	Solid	8015M/D	28130
885-26495-5	BS25-01 3'	Total/NA	Solid	8015M/D	28130
885-26495-6	BS25-02 3'	Total/NA	Solid	8015M/D	28130
MB 885-28130/1-A	Method Blank	Total/NA	Solid	8015M/D	28130
LCS 885-28130/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28130

HPLC/IC

Prep Batch: 28163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	300_Prep	
885-26495-2	BH25-07 4'	Total/NA	Solid	300_Prep	
885-26495-3	WS25-01 0-3'	Total/NA	Solid	300_Prep	
885-26495-4	WS25-02 0-3'	Total/NA	Solid	300_Prep	
885-26495-5	BS25-01 3'	Total/NA	Solid	300_Prep	
885-26495-6	BS25-02 3'	Total/NA	Solid	300_Prep	
MB 885-28163/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-28163/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 28199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	300.0	28163
885-26495-2	BH25-07 4'	Total/NA	Solid	300.0	28163
885-26495-3	WS25-01 0-3'	Total/NA	Solid	300.0	28163
885-26495-4	WS25-02 0-3'	Total/NA	Solid	300.0	28163
885-26495-5	BS25-01 3'	Total/NA	Solid	300.0	28163
885-26495-6	BS25-02 3'	Total/NA	Solid	300.0	28163
MB 885-28163/1-A	Method Blank	Total/NA	Solid	300.0	28163
LCS 885-28163/2-A	Lab Control Sample	Total/NA	Solid	300.0	28163
MRL 885-28199/5	Lab Control Sample	Total/NA	Solid	300.0	

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

Client Sample ID: BH25-07 2'
Date Collected: 06/08/25 11:00
Date Received: 06/11/25 07:35

Lab Sample ID: 885-26495-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8015M/D		1	28205	JP	EET ALB	06/13/25 00:19
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8021B		1	28204	JP	EET ALB	06/13/25 00:19
Total/NA	Prep	SHAKE			28130	MI	EET ALB	06/12/25 09:00
Total/NA	Analysis	8015M/D		1	28149	EM	EET ALB	06/12/25 17:21
Total/NA	Prep	300_Prep			28163	MA	EET ALB	06/12/25 11:33
Total/NA	Analysis	300.0		20	28199	RC	EET ALB	06/12/25 19:02

Client Sample ID: BH25-07 4'
Date Collected: 06/09/25 09:30
Date Received: 06/11/25 07:35

Lab Sample ID: 885-26495-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8015M/D		1	28205	JP	EET ALB	06/13/25 01:31
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8021B		1	28204	JP	EET ALB	06/13/25 01:31
Total/NA	Prep	SHAKE			28130	MI	EET ALB	06/12/25 09:00
Total/NA	Analysis	8015M/D		1	28149	EM	EET ALB	06/12/25 17:45
Total/NA	Prep	300_Prep			28163	MA	EET ALB	06/12/25 11:33
Total/NA	Analysis	300.0		20	28199	RC	EET ALB	06/12/25 19:13

Client Sample ID: WS25-01 0-3'
Date Collected: 06/09/25 12:20
Date Received: 06/11/25 07:35

Lab Sample ID: 885-26495-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8015M/D		1	28205	JP	EET ALB	06/13/25 02:43
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8021B		1	28204	JP	EET ALB	06/13/25 02:43
Total/NA	Prep	SHAKE			28130	MI	EET ALB	06/12/25 09:00
Total/NA	Analysis	8015M/D		1	28149	EM	EET ALB	06/12/25 18:09
Total/NA	Prep	300_Prep			28163	MA	EET ALB	06/12/25 11:33
Total/NA	Analysis	300.0		20	28199	RC	EET ALB	06/12/25 19:23

Client Sample ID: WS25-02 0-3'
Date Collected: 06/09/25 13:00
Date Received: 06/11/25 07:35

Lab Sample ID: 885-26495-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8015M/D		1	28205	JP	EET ALB	06/13/25 03:06

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

Client Sample ID: WS25-02 0-3'
Date Collected: 06/09/25 13:00
Date Received: 06/11/25 07:35

Lab Sample ID: 885-26495-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8021B		1	28204	JP	EET ALB	06/13/25 03:06
Total/NA	Prep	SHAKE			28130	MI	EET ALB	06/12/25 09:00
Total/NA	Analysis	8015M/D		1	28149	EM	EET ALB	06/12/25 18:33
Total/NA	Prep	300_Prep			28163	MA	EET ALB	06/12/25 11:33
Total/NA	Analysis	300.0		20	28199	RC	EET ALB	06/12/25 19:33

Client Sample ID: BS25-01 3'
Date Collected: 06/09/25 13:30
Date Received: 06/11/25 07:35

Lab Sample ID: 885-26495-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:13
Total/NA	Analysis	8015M/D		1	28205	JP	EET ALB	06/13/25 03:30
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:13
Total/NA	Analysis	8021B		1	28204	JP	EET ALB	06/13/25 03:30
Total/NA	Prep	SHAKE			28130	MI	EET ALB	06/12/25 09:00
Total/NA	Analysis	8015M/D		1	28149	EM	EET ALB	06/12/25 18:57
Total/NA	Prep	300_Prep			28163	MA	EET ALB	06/12/25 11:33
Total/NA	Analysis	300.0		20	28199	RC	EET ALB	06/12/25 19:44

Client Sample ID: BS25-02 3'
Date Collected: 06/09/25 13:35
Date Received: 06/11/25 07:35

Lab Sample ID: 885-26495-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:13
Total/NA	Analysis	8015M/D		1	28205	JP	EET ALB	06/13/25 03:54
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:13
Total/NA	Analysis	8021B		1	28204	JP	EET ALB	06/13/25 03:54
Total/NA	Prep	SHAKE			28130	MI	EET ALB	06/12/25 09:00
Total/NA	Analysis	8015M/D		1	28149	EM	EET ALB	06/12/25 19:21
Total/NA	Prep	300_Prep			28163	MA	EET ALB	06/12/25 11:33
Total/NA	Analysis	300.0		20	28199	RC	EET ALB	06/12/25 20:15

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26495-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-26495-1

Login Number: 26495

List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	



Environment Testing

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- 11

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/18/2025 7:28:15 PM

JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-26814-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
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Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-26814-1

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Definitions/Glossary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Case Narrative

Client: Vertex
Project: B Lee State #006

Job ID: 885-26814-1

Job ID: 885-26814-1Eurofins Albuquerque

Job Narrative 885-26814-1

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 6/14/2025 7:53 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 5.3°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

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Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

Client Sample ID: BS25-04 3ft

Lab Sample ID: 885-26814-1

Date Collected: 06/10/25 15:20

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/16/25 12:34	06/18/25 05:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/16/25 12:34	06/18/25 05:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 05:15	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 05:15	1
Toluene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 05:15	1
Xylenes, Total	ND		0.10	mg/Kg		06/16/25 12:34	06/18/25 05:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			06/16/25 12:34	06/18/25 05:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		06/17/25 10:31	06/18/25 04:29	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/17/25 10:31	06/18/25 04:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			06/17/25 10:31	06/18/25 04:29	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	680		60	mg/Kg		06/16/25 14:30	06/17/25 09:09	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

Client Sample ID: BS25-06 at 3ft

Lab Sample ID: 885-26814-2

Date Collected: 06/10/25 15:40

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/16/25 12:34	06/18/25 06:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			06/16/25 12:34	06/18/25 06:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 06:27	1
Ethylbenzene	ND		0.049	mg/Kg		06/16/25 12:34	06/18/25 06:27	1
Toluene	ND		0.049	mg/Kg		06/16/25 12:34	06/18/25 06:27	1
Xylenes, Total	ND		0.099	mg/Kg		06/16/25 12:34	06/18/25 06:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 12:34	06/18/25 06:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	36		9.5	mg/Kg		06/17/25 10:31	06/18/25 04:41	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/17/25 10:31	06/18/25 04:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134			06/17/25 10:31	06/18/25 04:41	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	380		60	mg/Kg		06/16/25 14:30	06/17/25 09:40	20

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Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

Client Sample ID: BS25-07 at 3ft

Lab Sample ID: 885-26814-3

Date Collected: 06/10/25 15:45

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/16/25 12:34	06/18/25 07:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			06/16/25 12:34	06/18/25 07:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 07:37	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 07:37	1
Toluene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 07:37	1
Xylenes, Total	ND		0.099	mg/Kg		06/16/25 12:34	06/18/25 07:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			06/16/25 12:34	06/18/25 07:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	24		9.8	mg/Kg		06/17/25 10:31	06/18/25 04:52	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 04:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			06/17/25 10:31	06/18/25 04:52	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280		60	mg/Kg		06/16/25 14:30	06/17/25 10:11	20

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Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

Client Sample ID: BS25-08 at 3ft

Lab Sample ID: 885-26814-4

Date Collected: 06/10/25 15:50

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/16/25 12:34	06/18/25 08:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			06/16/25 12:34	06/18/25 08:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 08:01	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 08:01	1
Toluene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 08:01	1
Xylenes, Total	ND		0.099	mg/Kg		06/16/25 12:34	06/18/25 08:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			06/16/25 12:34	06/18/25 08:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	33		9.4	mg/Kg		06/17/25 10:31	06/18/25 05:03	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/17/25 10:31	06/18/25 05:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			06/17/25 10:31	06/18/25 05:03	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	440		60	mg/Kg		06/16/25 14:30	06/17/25 10:21	20

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

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

Lab Sample ID: MB 885-28381/3-A

Matrix: Solid

Analysis Batch: 28515

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28381

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/16/25 12:34	06/18/25 04:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			06/16/25 12:34	06/18/25 04:51	1

Lab Sample ID: LCS 885-28381/1-A

Matrix: Solid

Analysis Batch: 28515

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	23.8		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	202		15 - 150				

Lab Sample ID: 885-26814-1 MS

Matrix: Solid

Analysis Batch: 28515

Client Sample ID: BS25-04 3ft

Prep Type: Total/NA

Prep Batch: 28381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	23.3		mg/Kg		94	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	202		15 - 150						

Lab Sample ID: 885-26814-1 MSD

Matrix: Solid

Analysis Batch: 28515

Client Sample ID: BS25-04 3ft

Prep Type: Total/NA

Prep Batch: 28381

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	21.0		mg/Kg		84	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	192		15 - 150								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28381/3-A

Matrix: Solid

Analysis Batch: 28516

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28381

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 04:51	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 04:51	1
Toluene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 04:51	1

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

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

Lab Sample ID: MB 885-28381/3-A

Matrix: Solid

Analysis Batch: 28516

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28381

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		06/16/25 12:34	06/18/25 04:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			06/16/25 12:34	06/18/25 04:51	1

Lab Sample ID: LCS 885-28381/2-A

Matrix: Solid

Analysis Batch: 28516

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.982		mg/Kg		98	70 - 130
Ethylbenzene	1.00	0.980		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	2.00	2.03		mg/Kg		102	70 - 130
o-Xylene	1.00	0.995		mg/Kg		99	70 - 130
Toluene	1.00	0.979		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	94		15 - 150				

Lab Sample ID: 885-26814-2 MS

Matrix: Solid

Analysis Batch: 28516

Client Sample ID: BS25-06 at 3ft

Prep Type: Total/NA

Prep Batch: 28381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.989	0.934		mg/Kg		94	70 - 130
Ethylbenzene	ND		0.989	0.930		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	ND		1.98	1.93		mg/Kg		97	70 - 130
o-Xylene	ND		0.989	0.933		mg/Kg		94	70 - 130
Toluene	ND		0.989	0.925		mg/Kg		94	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		15 - 150						

Lab Sample ID: 885-26814-2 MSD

Matrix: Solid

Analysis Batch: 28516

Client Sample ID: BS25-06 at 3ft

Prep Type: Total/NA

Prep Batch: 28381

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.984	0.871		mg/Kg		88	70 - 130	7	20
Ethylbenzene	ND		0.984	0.860		mg/Kg		87	70 - 130	8	20
m-Xylene & p-Xylene	ND		1.97	1.81		mg/Kg		92	70 - 130	6	20
o-Xylene	ND		0.984	0.871		mg/Kg		89	70 - 130	7	20
Toluene	ND		0.984	0.869		mg/Kg		88	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		15 - 150								

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

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

Lab Sample ID: MB 885-28453/1-A

Matrix: Solid

Analysis Batch: 28430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28453

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/17/25 10:31	06/18/25 04:07	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/17/25 10:31	06/18/25 04:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			06/17/25 10:31	06/18/25 04:07	1

Lab Sample ID: LCS 885-28453/2-A

Matrix: Solid

Analysis Batch: 28430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Diesel Range Organics [C10-C28]	50.0	57.0		mg/Kg		114	51 - 148	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Di-n-octyl phthalate (Surr)	112		62 - 134					

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-28395/1-A

Matrix: Solid

Analysis Batch: 28427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28395

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		06/16/25 14:30	06/17/25 08:44	1

Lab Sample ID: LCS 885-28395/2-A

Matrix: Solid

Analysis Batch: 28427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	30.0	29.3		mg/Kg		98	90 - 110	

Lab Sample ID: 885-26814-1 MS

Matrix: Solid

Analysis Batch: 28427

Client Sample ID: BS25-04 3ft

Prep Type: Total/NA

Prep Batch: 28395

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	680		30.0	707	4	mg/Kg		91	50 - 150	

Lab Sample ID: 885-26814-1 MSD

Matrix: Solid

Analysis Batch: 28427

Client Sample ID: BS25-04 3ft

Prep Type: Total/NA

Prep Batch: 28395

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride	680		29.9	724	4	mg/Kg		148	50 - 150	2 20

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-26814-2 MS				Client Sample ID: BS25-06 at 3ft						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 28427				Prep Batch: 28395						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	380		30.0	405	4	mg/Kg		68	50 - 150	

Lab Sample ID: 885-26814-2 MSD				Client Sample ID: BS25-06 at 3ft						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 28427				Prep Batch: 28395						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride	380		30.0	413	4	mg/Kg		97	50 - 150	2 20

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

GC VOA

Prep Batch: 28381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	5030C	
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	5030C	
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	5030C	
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	5030C	
MB 885-28381/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28381/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28381/2-A	Lab Control Sample	Total/NA	Solid	5030C	
885-26814-1 MS	BS25-04 3ft	Total/NA	Solid	5030C	
885-26814-1 MSD	BS25-04 3ft	Total/NA	Solid	5030C	
885-26814-2 MS	BS25-06 at 3ft	Total/NA	Solid	5030C	
885-26814-2 MSD	BS25-06 at 3ft	Total/NA	Solid	5030C	

Analysis Batch: 28515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	8015M/D	28381
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	8015M/D	28381
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	8015M/D	28381
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	8015M/D	28381
MB 885-28381/3-A	Method Blank	Total/NA	Solid	8015M/D	28381
LCS 885-28381/1-A	Lab Control Sample	Total/NA	Solid	8015M/D	28381
885-26814-1 MS	BS25-04 3ft	Total/NA	Solid	8015M/D	28381
885-26814-1 MSD	BS25-04 3ft	Total/NA	Solid	8015M/D	28381

Analysis Batch: 28516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	8021B	28381
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	8021B	28381
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	8021B	28381
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	8021B	28381
MB 885-28381/3-A	Method Blank	Total/NA	Solid	8021B	28381
LCS 885-28381/2-A	Lab Control Sample	Total/NA	Solid	8021B	28381
885-26814-2 MS	BS25-06 at 3ft	Total/NA	Solid	8021B	28381
885-26814-2 MSD	BS25-06 at 3ft	Total/NA	Solid	8021B	28381

GC Semi VOA

Analysis Batch: 28430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	8015M/D	28453
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	8015M/D	28453
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	8015M/D	28453
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	8015M/D	28453
MB 885-28453/1-A	Method Blank	Total/NA	Solid	8015M/D	28453
LCS 885-28453/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28453

Prep Batch: 28453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	SHAKE	
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	SHAKE	
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	SHAKE	
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

GC Semi VOA (Continued)

Prep Batch: 28453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-28453/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28453/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 28395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	300_Prep	
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	300_Prep	
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	300_Prep	
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	300_Prep	
MB 885-28395/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-28395/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-26814-1 MS	BS25-04 3ft	Total/NA	Solid	300_Prep	
885-26814-1 MSD	BS25-04 3ft	Total/NA	Solid	300_Prep	
885-26814-2 MS	BS25-06 at 3ft	Total/NA	Solid	300_Prep	
885-26814-2 MSD	BS25-06 at 3ft	Total/NA	Solid	300_Prep	

Analysis Batch: 28427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	300.0	28395
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	300.0	28395
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	300.0	28395
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	300.0	28395
MB 885-28395/1-A	Method Blank	Total/NA	Solid	300.0	28395
LCS 885-28395/2-A	Lab Control Sample	Total/NA	Solid	300.0	28395
885-26814-1 MS	BS25-04 3ft	Total/NA	Solid	300.0	28395
885-26814-1 MSD	BS25-04 3ft	Total/NA	Solid	300.0	28395
885-26814-2 MS	BS25-06 at 3ft	Total/NA	Solid	300.0	28395
885-26814-2 MSD	BS25-06 at 3ft	Total/NA	Solid	300.0	28395

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

Client Sample ID: BS25-04 3ft

Lab Sample ID: 885-26814-1

Date Collected: 06/10/25 15:20

Matrix: Solid

Date Received: 06/14/25 07:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 05:15
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 05:15
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 04:29
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 09:09

Client Sample ID: BS25-06 at 3ft

Lab Sample ID: 885-26814-2

Date Collected: 06/10/25 15:40

Matrix: Solid

Date Received: 06/14/25 07:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 06:27
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 06:27
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 04:41
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 09:40

Client Sample ID: BS25-07 at 3ft

Lab Sample ID: 885-26814-3

Date Collected: 06/10/25 15:45

Matrix: Solid

Date Received: 06/14/25 07:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 07:37
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 07:37
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 04:52
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 10:11

Client Sample ID: BS25-08 at 3ft

Lab Sample ID: 885-26814-4

Date Collected: 06/10/25 15:50

Matrix: Solid

Date Received: 06/14/25 07:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 08:01

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

Client Sample ID: BS25-08 at 3ft
Date Collected: 06/10/25 15:50
Date Received: 06/14/25 07:53

Lab Sample ID: 885-26814-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 08:01
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 05:03
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 10:21

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26814-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-26814-1

SDG Number:

Login Number: 26814

List Number: 1

Creator: Proctor, Nancy

List Source: Eurofins Albuquerque

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-26816-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.
Released to Imaging: 8/20/2025 9:51:12 AM



Eurofins Albuquerque

Job Notes

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

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)338-8812

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6/18/2025 7:28:17 PM

Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-26816-1

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Definitions/Glossary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Qualifiers

GC Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: B Lee State #006

Job ID: 885-26816-1

Job ID: 885-26816-1

Eurofins Albuquerque

Job Narrative 885-26816-1

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 6/14/2025 7:53 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 5.3°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: WS25-06 at 0-3ft (885-26816-15), (885-26816-A-15-D MS) and (885-26816-A-15-E MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported. Furthermore, the LCS was within limits.

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: TP25-28 at 0ft

Lab Sample ID: 885-26816-1

Date Collected: 06/12/25 09:50

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/16/25 12:34	06/18/25 08:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			06/16/25 12:34	06/18/25 08:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 08:24	1
Ethylbenzene	ND		0.049	mg/Kg		06/16/25 12:34	06/18/25 08:24	1
Toluene	ND		0.049	mg/Kg		06/16/25 12:34	06/18/25 08:24	1
Xylenes, Total	ND		0.098	mg/Kg		06/16/25 12:34	06/18/25 08:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/16/25 12:34	06/18/25 08:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		06/17/25 10:31	06/18/25 05:25	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/17/25 10:31	06/18/25 05:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			06/17/25 10:31	06/18/25 05:25	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		60	mg/Kg		06/16/25 14:30	06/17/25 11:02	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-05 at 3ft

Lab Sample ID: 885-26816-2

Date Collected: 06/12/25 13:30

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/16/25 12:34	06/18/25 08:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 12:34	06/18/25 08:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 12:34	06/18/25 08:48	1
Ethylbenzene	ND		0.048	mg/Kg		06/16/25 12:34	06/18/25 08:48	1
Toluene	ND		0.048	mg/Kg		06/16/25 12:34	06/18/25 08:48	1
Xylenes, Total	ND		0.097	mg/Kg		06/16/25 12:34	06/18/25 08:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 12:34	06/18/25 08:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		06/17/25 10:31	06/18/25 05:36	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/17/25 10:31	06/18/25 05:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			06/17/25 10:31	06/18/25 05:36	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		60	mg/Kg		06/16/25 14:30	06/17/25 11:13	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-20 at 3ft

Lab Sample ID: 885-26816-3

Date Collected: 06/12/25 11:50

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/16/25 12:34	06/18/25 09:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			06/16/25 12:34	06/18/25 09:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 12:34	06/18/25 09:11	1
Ethylbenzene	ND		0.049	mg/Kg		06/16/25 12:34	06/18/25 09:11	1
Toluene	ND		0.049	mg/Kg		06/16/25 12:34	06/18/25 09:11	1
Xylenes, Total	ND		0.098	mg/Kg		06/16/25 12:34	06/18/25 09:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 12:34	06/18/25 09:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		06/17/25 10:31	06/18/25 05:47	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 05:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	118		62 - 134			06/17/25 10:31	06/18/25 05:47	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		60	mg/Kg		06/16/25 14:30	06/17/25 11:23	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-16 at 3ft

Lab Sample ID: 885-26816-4

Date Collected: 06/12/25 13:40

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/16/25 12:34	06/18/25 09:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			06/16/25 12:34	06/18/25 09:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 09:34	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 09:34	1
Toluene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 09:34	1
Xylenes, Total	ND		0.10	mg/Kg		06/16/25 12:34	06/18/25 09:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			06/16/25 12:34	06/18/25 09:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	26		9.4	mg/Kg		06/17/25 10:31	06/18/25 05:57	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/17/25 10:31	06/18/25 05:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134			06/17/25 10:31	06/18/25 05:57	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		60	mg/Kg		06/16/25 14:30	06/17/25 11:33	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: WS25-03 at 0-3ft

Lab Sample ID: 885-26816-5

Date Collected: 06/12/25 13:00

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/16/25 12:34	06/18/25 09:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			06/16/25 12:34	06/18/25 09:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 12:34	06/18/25 09:58	1
Ethylbenzene	ND		0.048	mg/Kg		06/16/25 12:34	06/18/25 09:58	1
Toluene	ND		0.048	mg/Kg		06/16/25 12:34	06/18/25 09:58	1
Xylenes, Total	ND		0.096	mg/Kg		06/16/25 12:34	06/18/25 09:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 12:34	06/18/25 09:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/17/25 10:31	06/18/25 06:08	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/17/25 10:31	06/18/25 06:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			06/17/25 10:31	06/18/25 06:08	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		60	mg/Kg		06/16/25 14:30	06/17/25 11:44	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-03 at 3ft

Lab Sample ID: 885-26816-6

Date Collected: 06/12/25 13:10

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		06/16/25 12:34	06/18/25 10:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			06/16/25 12:34	06/18/25 10:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 12:34	06/18/25 10:22	1
Ethylbenzene	ND		0.047	mg/Kg		06/16/25 12:34	06/18/25 10:22	1
Toluene	ND		0.047	mg/Kg		06/16/25 12:34	06/18/25 10:22	1
Xylenes, Total	ND		0.095	mg/Kg		06/16/25 12:34	06/18/25 10:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/16/25 12:34	06/18/25 10:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	19		9.7	mg/Kg		06/17/25 10:31	06/18/25 06:30	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/17/25 10:31	06/18/25 06:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			06/17/25 10:31	06/18/25 06:30	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		60	mg/Kg		06/16/25 14:30	06/17/25 11:54	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-28 at 3ft

Lab Sample ID: 885-26816-7

Date Collected: 06/12/25 13:20

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/16/25 12:34	06/18/25 11:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			06/16/25 12:34	06/18/25 11:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 11:09	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 11:09	1
Toluene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 11:09	1
Xylenes, Total	ND		0.10	mg/Kg		06/16/25 12:34	06/18/25 11:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/16/25 12:34	06/18/25 11:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		06/17/25 10:31	06/18/25 06:40	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/17/25 10:31	06/18/25 06:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134			06/17/25 10:31	06/18/25 06:40	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/16/25 14:30	06/17/25 12:04	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-14 at 3ft

Lab Sample ID: 885-26816-8

Date Collected: 06/12/25 13:50

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/16/25 12:34	06/18/25 11:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			06/16/25 12:34	06/18/25 11:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 12:34	06/18/25 11:32	1
Ethylbenzene	ND		0.049	mg/Kg		06/16/25 12:34	06/18/25 11:32	1
Toluene	ND		0.049	mg/Kg		06/16/25 12:34	06/18/25 11:32	1
Xylenes, Total	ND		0.098	mg/Kg		06/16/25 12:34	06/18/25 11:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			06/16/25 12:34	06/18/25 11:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	27		9.8	mg/Kg		06/17/25 10:31	06/18/25 06:51	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 06:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			06/17/25 10:31	06/18/25 06:51	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		60	mg/Kg		06/16/25 14:30	06/17/25 12:15	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-17 at 3ft

Lab Sample ID: 885-26816-9

Date Collected: 06/12/25 11:40

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/16/25 13:38	06/18/25 11:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 13:38	06/18/25 11:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 13:38	06/18/25 11:56	1
Ethylbenzene	ND		0.048	mg/Kg		06/16/25 13:38	06/18/25 11:56	1
Toluene	ND		0.048	mg/Kg		06/16/25 13:38	06/18/25 11:56	1
Xylenes, Total	ND		0.097	mg/Kg		06/16/25 13:38	06/18/25 11:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/16/25 13:38	06/18/25 11:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	30		9.7	mg/Kg		06/17/25 10:31	06/18/25 07:02	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/17/25 10:31	06/18/25 07:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	118		62 - 134			06/17/25 10:31	06/18/25 07:02	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	360		60	mg/Kg		06/16/25 14:30	06/17/25 12:25	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: TP25-28 at 4ft

Lab Sample ID: 885-26816-10

Date Collected: 06/12/25 10:10

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/16/25 13:38	06/18/25 12:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			06/16/25 13:38	06/18/25 12:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 13:38	06/18/25 12:19	1
Ethylbenzene	ND		0.048	mg/Kg		06/16/25 13:38	06/18/25 12:19	1
Toluene	ND		0.048	mg/Kg		06/16/25 13:38	06/18/25 12:19	1
Xylenes, Total	ND		0.096	mg/Kg		06/16/25 13:38	06/18/25 12:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			06/16/25 13:38	06/18/25 12:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		06/17/25 10:31	06/18/25 07:12	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 07:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			06/17/25 10:31	06/18/25 07:12	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/16/25 14:30	06/17/25 12:56	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-22 at 3ft

Lab Sample ID: 885-26816-11

Date Collected: 06/12/25 12:00

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/16/25 13:38	06/18/25 12:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 13:38	06/18/25 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 13:38	06/18/25 12:42	1
Ethylbenzene	ND		0.049	mg/Kg		06/16/25 13:38	06/18/25 12:42	1
Toluene	ND		0.049	mg/Kg		06/16/25 13:38	06/18/25 12:42	1
Xylenes, Total	ND		0.098	mg/Kg		06/16/25 13:38	06/18/25 12:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			06/16/25 13:38	06/18/25 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	10		10	mg/Kg		06/17/25 10:31	06/18/25 07:23	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/17/25 10:31	06/18/25 07:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			06/17/25 10:31	06/18/25 07:23	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		60	mg/Kg		06/16/25 14:30	06/17/25 13:07	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: TP25-28 at 2ft

Lab Sample ID: 885-26816-12

Date Collected: 06/12/25 10:00

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/16/25 13:38	06/18/25 13:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			06/16/25 13:38	06/18/25 13:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 13:38	06/18/25 13:06	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 13:38	06/18/25 13:06	1
Toluene	ND		0.050	mg/Kg		06/16/25 13:38	06/18/25 13:06	1
Xylenes, Total	ND		0.099	mg/Kg		06/16/25 13:38	06/18/25 13:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/16/25 13:38	06/18/25 13:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/17/25 10:31	06/18/25 07:34	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 07:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	119		62 - 134			06/17/25 10:31	06/18/25 07:34	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		60	mg/Kg		06/16/25 14:30	06/17/25 13:17	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-19 at 3ft

Lab Sample ID: 885-26816-13

Date Collected: 06/12/25 11:30

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/16/25 13:38	06/18/25 13:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			06/16/25 13:38	06/18/25 13:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 13:38	06/18/25 13:29	1
Ethylbenzene	ND		0.048	mg/Kg		06/16/25 13:38	06/18/25 13:29	1
Toluene	ND		0.048	mg/Kg		06/16/25 13:38	06/18/25 13:29	1
Xylenes, Total	ND		0.097	mg/Kg		06/16/25 13:38	06/18/25 13:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/16/25 13:38	06/18/25 13:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		06/17/25 10:31	06/18/25 07:45	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 07:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			06/17/25 10:31	06/18/25 07:45	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280		60	mg/Kg		06/16/25 14:30	06/17/25 13:27	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-09 at 3ft

Lab Sample ID: 885-26816-14

Date Collected: 06/13/25 07:00

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/16/25 13:38	06/18/25 13:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			06/16/25 13:38	06/18/25 13:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 13:38	06/18/25 13:53	1
Ethylbenzene	ND		0.048	mg/Kg		06/16/25 13:38	06/18/25 13:53	1
Toluene	ND		0.048	mg/Kg		06/16/25 13:38	06/18/25 13:53	1
Xylenes, Total	ND		0.096	mg/Kg		06/16/25 13:38	06/18/25 13:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 13:38	06/18/25 13:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38		9.6	mg/Kg		06/17/25 10:31	06/18/25 07:56	1
Motor Oil Range Organics [C28-C40]	86		48	mg/Kg		06/17/25 10:31	06/18/25 07:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	123		62 - 134			06/17/25 10:31	06/18/25 07:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		60	mg/Kg		06/16/25 14:34	06/17/25 13:38	20

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Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: WS25-06 at 0-3ft

Lab Sample ID: 885-26816-15

Date Collected: 06/13/25 07:10

Matrix: Solid

Date Received: 06/14/25 07:53

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/16/25 13:38	06/18/25 14:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			06/16/25 13:38	06/18/25 14:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 13:38	06/18/25 14:16	1
Ethylbenzene	ND		0.049	mg/Kg		06/16/25 13:38	06/18/25 14:16	1
Toluene	ND		0.049	mg/Kg		06/16/25 13:38	06/18/25 14:16	1
Xylenes, Total	ND		0.098	mg/Kg		06/16/25 13:38	06/18/25 14:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/16/25 13:38	06/18/25 14:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/17/25 10:31	06/18/25 08:07	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 08:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	126		62 - 134			06/17/25 10:31	06/18/25 08:07	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/16/25 14:34	06/17/25 13:48	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

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

Lab Sample ID: MB 885-28381/3-A

Matrix: Solid

Analysis Batch: 28515

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28381

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/16/25 12:34	06/18/25 04:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			06/16/25 12:34	06/18/25 04:51	1

Lab Sample ID: LCS 885-28381/1-A

Matrix: Solid

Analysis Batch: 28515

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	23.8		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	202		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28381/3-A

Matrix: Solid

Analysis Batch: 28516

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28381

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 04:51	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 04:51	1
Toluene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 04:51	1
Xylenes, Total	ND		0.10	mg/Kg		06/16/25 12:34	06/18/25 04:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			06/16/25 12:34	06/18/25 04:51	1

Lab Sample ID: LCS 885-28381/2-A

Matrix: Solid

Analysis Batch: 28516

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.982		mg/Kg		98	70 - 130
Ethylbenzene	1.00	0.980		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	2.00	2.03		mg/Kg		102	70 - 130
o-Xylene	1.00	0.995		mg/Kg		99	70 - 130
Toluene	1.00	0.979		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	94		15 - 150				

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

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

Lab Sample ID: MB 885-28453/1-A

Matrix: Solid

Analysis Batch: 28430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28453

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/17/25 10:31	06/18/25 04:07	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/17/25 10:31	06/18/25 04:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			06/17/25 10:31	06/18/25 04:07	1

Lab Sample ID: LCS 885-28453/2-A

Matrix: Solid

Analysis Batch: 28430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	57.0		mg/Kg		114	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	112		62 - 134				

Lab Sample ID: 885-26816-15 MS

Matrix: Solid

Analysis Batch: 28430

Client Sample ID: WS25-06 at 0-3ft

Prep Type: Total/NA

Prep Batch: 28453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		48.0	56.2		mg/Kg		98	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	136	S1+	62 - 134						

Lab Sample ID: 885-26816-15 MSD

Matrix: Solid

Analysis Batch: 28430

Client Sample ID: WS25-06 at 0-3ft

Prep Type: Total/NA

Prep Batch: 28453

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		47.2	54.0		mg/Kg		95	44 - 136	4	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	137	S1+	62 - 134								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-28395/1-A

Matrix: Solid

Analysis Batch: 28427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28395

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		06/16/25 14:30	06/17/25 08:44	1

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-28395/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 28427				Prep Batch: 28395			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	29.3		mg/Kg		98	90 - 110

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

GC VOA

Prep Batch: 28381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	5030C	
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	5030C	
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	5030C	
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	5030C	
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	5030C	
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	5030C	
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	5030C	
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	5030C	
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	5030C	
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	5030C	
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	5030C	
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	5030C	
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	5030C	
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	5030C	
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	5030C	
MB 885-28381/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28381/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28381/2-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 28515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	8015M/D	28381
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	8015M/D	28381
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	8015M/D	28381
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	8015M/D	28381
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	8015M/D	28381
MB 885-28381/3-A	Method Blank	Total/NA	Solid	8015M/D	28381
LCS 885-28381/1-A	Lab Control Sample	Total/NA	Solid	8015M/D	28381

Analysis Batch: 28516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	8021B	28381
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	8021B	28381
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	8021B	28381
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	8021B	28381
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	8021B	28381
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	8021B	28381
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	8021B	28381
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	8021B	28381
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	8021B	28381
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	8021B	28381

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QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

GC VOA (Continued)

Analysis Batch: 28516 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	8021B	28381
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	8021B	28381
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	8021B	28381
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	8021B	28381
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	8021B	28381
MB 885-28381/3-A	Method Blank	Total/NA	Solid	8021B	28381
LCS 885-28381/2-A	Lab Control Sample	Total/NA	Solid	8021B	28381

GC Semi VOA

Analysis Batch: 28430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	8015M/D	28453
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	8015M/D	28453
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	8015M/D	28453
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	8015M/D	28453
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	8015M/D	28453
MB 885-28453/1-A	Method Blank	Total/NA	Solid	8015M/D	28453
LCS 885-28453/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28453
885-26816-15 MS	WS25-06 at 0-3ft	Total/NA	Solid	8015M/D	28453
885-26816-15 MSD	WS25-06 at 0-3ft	Total/NA	Solid	8015M/D	28453

Prep Batch: 28453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	SHAKE	
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	SHAKE	
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	SHAKE	
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	SHAKE	
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	SHAKE	
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	SHAKE	
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	SHAKE	
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	SHAKE	
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	SHAKE	
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	SHAKE	
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	SHAKE	
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	SHAKE	
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	SHAKE	
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	SHAKE	
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	SHAKE	
MB 885-28453/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28453/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

GC Semi VOA (Continued)

Prep Batch: 28453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-15 MS	WS25-06 at 0-3ft	Total/NA	Solid	SHAKE	
885-26816-15 MSD	WS25-06 at 0-3ft	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 28395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	300_Prep	
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	300_Prep	
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	300_Prep	
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	300_Prep	
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	300_Prep	
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	300_Prep	
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	300_Prep	
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	300_Prep	
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	300_Prep	
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	300_Prep	
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	300_Prep	
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	300_Prep	
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	300_Prep	
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	300_Prep	
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	300_Prep	
MB 885-28395/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-28395/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 28427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	300.0	28395
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	300.0	28395
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	300.0	28395
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	300.0	28395
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	300.0	28395
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	300.0	28395
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	300.0	28395
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	300.0	28395
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	300.0	28395
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	300.0	28395
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	300.0	28395
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	300.0	28395
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	300.0	28395
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	300.0	28395
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	300.0	28395
MB 885-28395/1-A	Method Blank	Total/NA	Solid	300.0	28395
LCS 885-28395/2-A	Lab Control Sample	Total/NA	Solid	300.0	28395

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Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: TP25-28 at 0ft
Date Collected: 06/12/25 09:50
Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 08:24
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 08:24
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 05:25
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 11:02

Client Sample ID: BS25-05 at 3ft
Date Collected: 06/12/25 13:30
Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 08:48
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 08:48
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 05:36
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 11:13

Client Sample ID: BS25-20 at 3ft
Date Collected: 06/12/25 11:50
Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 09:11
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 09:11
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 05:47
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 11:23

Client Sample ID: BS25-16 at 3ft
Date Collected: 06/12/25 13:40
Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 09:34

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-16 at 3ft

Lab Sample ID: 885-26816-4

Date Collected: 06/12/25 13:40

Matrix: Solid

Date Received: 06/14/25 07:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 09:34
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 05:57
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 11:33

Client Sample ID: WS25-03 at 0-3ft

Lab Sample ID: 885-26816-5

Date Collected: 06/12/25 13:00

Matrix: Solid

Date Received: 06/14/25 07:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 09:58
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 09:58
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 06:08
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 11:44

Client Sample ID: BS25-03 at 3ft

Lab Sample ID: 885-26816-6

Date Collected: 06/12/25 13:10

Matrix: Solid

Date Received: 06/14/25 07:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 10:22
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 10:22
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 06:30
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 11:54

Client Sample ID: BS25-28 at 3ft

Lab Sample ID: 885-26816-7

Date Collected: 06/12/25 13:20

Matrix: Solid

Date Received: 06/14/25 07:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 11:09
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 11:09

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-28 at 3ft
Date Collected: 06/12/25 13:20
Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 06:40
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 12:04

Client Sample ID: BS25-14 at 3ft
Date Collected: 06/12/25 13:50
Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 11:32
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 11:32
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 06:51
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 12:15

Client Sample ID: BS25-17 at 3ft
Date Collected: 06/12/25 11:40
Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 11:56
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 11:56
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 07:02
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 12:25

Client Sample ID: TP25-28 at 4ft
Date Collected: 06/12/25 10:10
Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 12:19
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 12:19
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 07:12

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: TP25-28 at 4ft

Lab Sample ID: 885-26816-10

Date Collected: 06/12/25 10:10

Matrix: Solid

Date Received: 06/14/25 07:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 12:56

Client Sample ID: BS25-22 at 3ft

Lab Sample ID: 885-26816-11

Date Collected: 06/12/25 12:00

Matrix: Solid

Date Received: 06/14/25 07:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 12:42
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 12:42
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 07:23
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 13:07

Client Sample ID: TP25-28 at 2ft

Lab Sample ID: 885-26816-12

Date Collected: 06/12/25 10:00

Matrix: Solid

Date Received: 06/14/25 07:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 13:06
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 13:06
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 07:34
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 13:17

Client Sample ID: BS25-19 at 3ft

Lab Sample ID: 885-26816-13

Date Collected: 06/12/25 11:30

Matrix: Solid

Date Received: 06/14/25 07:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 13:29
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 13:29
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 07:45
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 13:27

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Client Sample ID: BS25-09 at 3ft
Date Collected: 06/13/25 07:00
Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 13:53
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 13:53
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 07:56
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:34
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 13:38

Client Sample ID: WS25-06 at 0-3ft
Date Collected: 06/13/25 07:10
Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 14:16
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 14:16
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 08:07
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:34
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 13:48

Laboratory References:

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-26816-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Chain-of-Custody Record

Client: **Vertex (bill to Devon Energy, Jim Raley)**

Turn-Around Time:

X Rush 2 days

Project Name:

B Lee State #006

Mailing Address:

3101 Boyd Dr

Carlsbad, New Mexico

Project #:

25A-01934

Phone #:

575.725.5001

email or Fax#:

Project Manager:

Sally Carttar

QA/QC Package:

SCarttar@vertexresource.com☐ Standard☐ Level 4 (Full Validation)

Accreditation:

☐ Az Compliance

Sampler:

Sharon Minnix

☐ NELAC☐ Other _____

On Ice:

☒ Yes☐ No☐ EDD (Type) _____

of Coolers:

1

Cooler Temp (including CF): **5.1 + 0.2 = 5.3°C**

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
6.12.25	9:50	Soil	TP25-28 at 0ft	1, 4oz jar	ICE	-1
6.12.25	13:30	Soil	BS25-05 at 3ft	1, 4oz jar	ICE	-2
6.12.25	11:50	Soil	BS25-20 at 3ft	1, 4oz jar	ICE	-3
6.12.25	13:40	Soil	BS25-16 at 3ft	1, 4oz jar	ICE	-4
6.12.25	13:00	Soil	WS25-03 at 0-3ft	1, 4oz jar	ICE	-5
6.12.25	13:10	Soil	BS25-03 at 3ft	1, 4oz jar	ICE	-6
6.12.25	13:20	Soil	BS25-28 at 3ft	1, 4oz jar	ICE	-7
6.12.25	13:50	Soil	BS25-14 at 3ft	1, 4oz jar	ICE	-8
6.12.25	11:40	Soil	BS25-17 at 3ft	1, 4oz jar	ICE	-9
6.12.25	10:10	Soil	TP25-28 at 4ft	1, 4oz jar	ICE	-10
6.12.25	12:00	Soil	BS25-22 at 3ft	1, 4oz jar	ICE	-11
6.12.25	10:00	Soil	TP25-28 at 2ft	1, 4oz jar	ICE	-12
6.12.25	11:30	Soil	BS25-19 at 3ft	1, 4oz jar	ICE	-13
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/13/25	1900	<i>[Signature]</i>	<i>[Signature]</i>		6/13/25	800
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/13/25	1900	<i>[Signature]</i>	<i>[Signature]</i>		6/14/25	7:53

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 871

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



885-26816 coc

BTX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)										
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
Remarks: Direct Bill to Mack Energy ATTN: Matt Buckles CC.Sally Carttar (SCarttar@vertexresource.com), Permian@vertexresource.com, and Sharon Minnix (SMinnix@vertexresource.com) for Final Report.																			

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

Chain-of-Custody Record

Client: **Vertex (bill to Devon Energy, Jim Raley)**

Turn-Around Time:

X Rush 2 days

Mailing Address:

3101 Boyd Dr

Carlsbad, New Mexico

Phone #:

575.725.5001

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)

Accreditation:

☐ Az Compliance☐ NELAC☐ Other _____☐ EDD (Type) _____

Project Name:

B Lee State #006

Project #:

25A-01934

Project Manager:

Sally CarttarSCarttar@vertexresource.com

Sampler:

Sharon Minnix

On Ice:

☒ Yes☐ No

of Coolers: /

Cooler Temp (including CF): *5.140.2 = 5.3°C*Container
Type and #Preservative
Type

HEAL No.

Date Time Matrix Sample Name

6.13.25 7:00 Soil BS25-09 at 2'

1, 4oz jar

ICE

-14

6.13.25 7:10 Soil BWS25-06 at 0-2ft

1, 4oz jar

ICE

-15

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

26816

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Date:

Time:

Relinquished by:

Received by:

Via:

Date

Time

Remarks: Direct Bill to Mack Energy ATTN: Matt Buckles

CC.Sally Carttar (SCarttar@vertexresource.com),

Permian@vertexresource.com, and Sharon Minnix

(SMinnix@vertexresource.com) for Final Report.

Date:

Time:

Relinquished by:

Received by:

Via:

Date

Time

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

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-26816-1

Login Number: 26816

List Source: Eurofins Albuquerque

List Number: 1

Creator: Proctor, Nancy

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/23/2025 1:33:18 PM

JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-27206-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.
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Job Notes

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

Authorization



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Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-27206-1

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Definitions/Glossary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27206-1

Glossary

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

Case Narrative

Client: Vertex
Project: B Lee State #006

Job ID: 885-27206-1

Job ID: 885-27206-1

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Job Narrative 885-27206-1

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 6/20/2025 8:25 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 3.3°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: Surrogate recovery for the following sample is outside the upper control limit: (CCV 885-28707/51). Corresponding CCV has high surrogate. However, samples have acceptable surrogate within range. Therefore, data is reported.

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

HPLC/IC

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

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Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27206-1

Client Sample ID: BS-09 at 3.5ft

Lab Sample ID: 885-27206-1

Date Collected: 06/18/25 12:30

Matrix: Solid

Date Received: 06/20/25 08:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		06/20/25 09:30	06/20/25 12:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/20/25 09:30	06/20/25 12:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		06/20/25 09:30	06/20/25 12:18	1
Ethylbenzene	ND		0.047	mg/Kg		06/20/25 09:30	06/20/25 12:18	1
Toluene	ND		0.047	mg/Kg		06/20/25 09:30	06/20/25 12:18	1
Xylenes, Total	ND		0.094	mg/Kg		06/20/25 09:30	06/20/25 12:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/20/25 09:30	06/20/25 12:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		06/20/25 09:48	06/20/25 11:58	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/20/25 09:48	06/20/25 11:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			06/20/25 09:48	06/20/25 11:58	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430		60	mg/Kg		06/20/25 10:19	06/20/25 12:01	20

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Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27206-1

Client Sample ID: BS25-26 at 3ft

Lab Sample ID: 885-27206-2

Date Collected: 06/18/25 12:20

Matrix: Solid

Date Received: 06/20/25 08:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.0	mg/Kg		06/20/25 09:30	06/20/25 12:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/20/25 09:30	06/20/25 12:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020	mg/Kg		06/20/25 09:30	06/20/25 12:40	1
Ethylbenzene	ND		0.040	mg/Kg		06/20/25 09:30	06/20/25 12:40	1
Toluene	ND		0.040	mg/Kg		06/20/25 09:30	06/20/25 12:40	1
Xylenes, Total	ND		0.081	mg/Kg		06/20/25 09:30	06/20/25 12:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			06/20/25 09:30	06/20/25 12:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/20/25 09:48	06/20/25 12:09	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/20/25 09:48	06/20/25 12:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			06/20/25 09:48	06/20/25 12:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	500		60	mg/Kg		06/20/25 10:19	06/20/25 12:14	20

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Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27206-1

Client Sample ID: BS25-24 at 5ft

Lab Sample ID: 885-27206-3

Date Collected: 06/18/25 12:00

Matrix: Solid

Date Received: 06/20/25 08:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.2	mg/Kg		06/20/25 09:30	06/20/25 13:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			06/20/25 09:30	06/20/25 13:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021	mg/Kg		06/20/25 09:30	06/20/25 13:01	1
Ethylbenzene	ND		0.042	mg/Kg		06/20/25 09:30	06/20/25 13:01	1
Toluene	ND		0.042	mg/Kg		06/20/25 09:30	06/20/25 13:01	1
Xylenes, Total	ND		0.083	mg/Kg		06/20/25 09:30	06/20/25 13:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			06/20/25 09:30	06/20/25 13:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/20/25 09:48	06/20/25 12:20	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/20/25 09:48	06/20/25 12:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			06/20/25 09:48	06/20/25 12:20	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		60	mg/Kg		06/20/25 10:19	06/20/25 12:27	20

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27206-1

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

Lab Sample ID: MB 885-28717/1-A

Matrix: Solid

Analysis Batch: 28726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28717

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/20/25 09:30	06/20/25 11:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			06/20/25 09:30	06/20/25 11:56	1

Lab Sample ID: LCS 885-28717/3-A

Matrix: Solid

Analysis Batch: 28726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	27.1		mg/Kg		109	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	214		15 - 150				

Lab Sample ID: 885-27206-1 MS

Matrix: Solid

Analysis Batch: 28726

Client Sample ID: BS-09 at 3.5ft

Prep Type: Total/NA

Prep Batch: 28717

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		23.5	23.8		mg/Kg		101	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	210		15 - 150						

Lab Sample ID: 885-27206-1 MSD

Matrix: Solid

Analysis Batch: 28726

Client Sample ID: BS-09 at 3.5ft

Prep Type: Total/NA

Prep Batch: 28717

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		23.5	23.5		mg/Kg		100	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	208		15 - 150								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28717/1-A

Matrix: Solid

Analysis Batch: 28727

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28717

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/20/25 09:30	06/20/25 11:56	1
Ethylbenzene	ND		0.050	mg/Kg		06/20/25 09:30	06/20/25 11:56	1
Toluene	ND		0.050	mg/Kg		06/20/25 09:30	06/20/25 11:56	1

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27206-1

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

Lab Sample ID: MB 885-28717/1-A

Matrix: Solid

Analysis Batch: 28727

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28717

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		06/20/25 09:30	06/20/25 11:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			06/20/25 09:30	06/20/25 11:56	1

Lab Sample ID: LCS 885-28717/4-A

Matrix: Solid

Analysis Batch: 28727

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.881		mg/Kg		88	70 - 130
Ethylbenzene	1.00	0.922		mg/Kg		92	70 - 130
m,p-Xylene	2.00	1.87		mg/Kg		93	70 - 130
o-Xylene	1.00	0.929		mg/Kg		93	70 - 130
Toluene	1.00	0.887		mg/Kg		89	70 - 130
Xylenes, Total	3.00	2.80		mg/Kg		93	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		15 - 150				

Lab Sample ID: 885-27206-2 MS

Matrix: Solid

Analysis Batch: 28727

Client Sample ID: BS25-26 at 3ft

Prep Type: Total/NA

Prep Batch: 28717

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.810	0.644		mg/Kg		80	70 - 130
Ethylbenzene	ND		0.810	0.689		mg/Kg		85	70 - 130
m,p-Xylene	ND		1.62	1.38		mg/Kg		85	70 - 130
o-Xylene	ND		0.810	0.689		mg/Kg		85	70 - 130
Toluene	ND		0.810	0.649		mg/Kg		80	70 - 130
Xylenes, Total	ND		2.43	2.07		mg/Kg		85	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	92		15 - 150						

Lab Sample ID: 885-27206-2 MSD

Matrix: Solid

Analysis Batch: 28727

Client Sample ID: BS25-26 at 3ft

Prep Type: Total/NA

Prep Batch: 28717

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.810	0.615		mg/Kg		76	70 - 130	5	20
Ethylbenzene	ND		0.810	0.651		mg/Kg		80	70 - 130	6	20
m,p-Xylene	ND		1.62	1.32		mg/Kg		82	70 - 130	5	20
o-Xylene	ND		0.810	0.660		mg/Kg		81	70 - 130	4	20
Toluene	ND		0.810	0.623		mg/Kg		77	70 - 130	4	20
Xylenes, Total	ND		2.43	1.98		mg/Kg		82	70 - 130	5	20

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27206-1

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

Lab Sample ID: 885-27206-2 MSD

Matrix: Solid

Analysis Batch: 28727

Client Sample ID: BS25-26 at 3ft

Prep Type: Total/NA

Prep Batch: 28717

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		15 - 150

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

Lab Sample ID: MB 885-28719/1-A

Matrix: Solid

Analysis Batch: 28707

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28719

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/20/25 09:48	06/20/25 11:36	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/20/25 09:48	06/20/25 11:36	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	105		62 - 134			06/20/25 09:48	06/20/25 11:36	1	

Lab Sample ID: LCS 885-28719/2-A

Matrix: Solid

Analysis Batch: 28707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28719

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics [C10-C28]		50.0	50.5		mg/Kg		101	51 - 148	
Surrogate	%Recovery	Qualifier	Limits						
Di-n-octyl phthalate (Surr)	101		62 - 134						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-28722/1-A

Matrix: Solid

Analysis Batch: 28732

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28722

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		1.5	mg/Kg		06/20/25 10:19	06/20/25 11:35	1	

Lab Sample ID: LCS 885-28722/2-A

Matrix: Solid

Analysis Batch: 28732

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28722

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		15.0	15.6		mg/Kg		104	90 - 110	

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QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27206-1

GC VOA

Prep Batch: 28717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	5035	
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	5035	
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	5035	
MB 885-28717/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-28717/3-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-28717/4-A	Lab Control Sample	Total/NA	Solid	5035	
885-27206-1 MS	BS-09 at 3.5ft	Total/NA	Solid	5035	
885-27206-1 MSD	BS-09 at 3.5ft	Total/NA	Solid	5035	
885-27206-2 MS	BS25-26 at 3ft	Total/NA	Solid	5035	
885-27206-2 MSD	BS25-26 at 3ft	Total/NA	Solid	5035	

Analysis Batch: 28726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	8015M/D	28717
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	8015M/D	28717
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	8015M/D	28717
MB 885-28717/1-A	Method Blank	Total/NA	Solid	8015M/D	28717
LCS 885-28717/3-A	Lab Control Sample	Total/NA	Solid	8015M/D	28717
885-27206-1 MS	BS-09 at 3.5ft	Total/NA	Solid	8015M/D	28717
885-27206-1 MSD	BS-09 at 3.5ft	Total/NA	Solid	8015M/D	28717

Analysis Batch: 28727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	8021B	28717
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	8021B	28717
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	8021B	28717
MB 885-28717/1-A	Method Blank	Total/NA	Solid	8021B	28717
LCS 885-28717/4-A	Lab Control Sample	Total/NA	Solid	8021B	28717
885-27206-2 MS	BS25-26 at 3ft	Total/NA	Solid	8021B	28717
885-27206-2 MSD	BS25-26 at 3ft	Total/NA	Solid	8021B	28717

GC Semi VOA

Analysis Batch: 28707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	8015M/D	28719
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	8015M/D	28719
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	8015M/D	28719
MB 885-28719/1-A	Method Blank	Total/NA	Solid	8015M/D	28719
LCS 885-28719/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28719

Prep Batch: 28719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	SHAKE	
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	SHAKE	
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	SHAKE	
MB 885-28719/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28719/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27206-1

HPLC/IC

Prep Batch: 28722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	300_Prep	
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	300_Prep	
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	300_Prep	
MB 885-28722/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-28722/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 28732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	300.0	28722
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	300.0	28722
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	300.0	28722
MB 885-28722/1-A	Method Blank	Total/NA	Solid	300.0	28722
LCS 885-28722/2-A	Lab Control Sample	Total/NA	Solid	300.0	28722

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27206-1

Client Sample ID: BS-09 at 3.5ft

Lab Sample ID: 885-27206-1

Date Collected: 06/18/25 12:30

Matrix: Solid

Date Received: 06/20/25 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:30
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 12:18
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:30
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 12:18
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 11:58
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 12:01

Client Sample ID: BS25-26 at 3ft

Lab Sample ID: 885-27206-2

Date Collected: 06/18/25 12:20

Matrix: Solid

Date Received: 06/20/25 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:30
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 12:40
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:30
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 12:40
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 12:09
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 12:14

Client Sample ID: BS25-24 at 5ft

Lab Sample ID: 885-27206-3

Date Collected: 06/18/25 12:00

Matrix: Solid

Date Received: 06/20/25 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:30
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 13:01
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:30
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 13:01
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 12:20
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 12:27

Laboratory References:

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

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27206-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5035	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Age Group	Number of People
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-27206-1

Login Number: 27206

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/23/2025 1:33:19 PM

JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-27207-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
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(505)338-8812

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6/23/2025 1:33:19 PM

Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-27207-1

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Definitions/Glossary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Glossary

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

Case Narrative

Client: Vertex
Project: B Lee State #006

Job ID: 885-27207-1

Job ID: 885-27207-1

Eurofins Albuquerque

Job Narrative 885-27207-1

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 6/20/2025 8:25 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 3.3°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: Surrogate recovery for the following sample is outside the upper control limit: (CCV 885-28707/51). Corresponding CCV has high surrogate. However, samples have acceptable surrogate within range. Therefore, data is reported.

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Client Sample ID: BS25-25 at 5ft

Lab Sample ID: 885-27207-1

Date Collected: 06/17/25 08:40

Matrix: Solid

Date Received: 06/20/25 08:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/20/25 09:44	06/20/25 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/20/25 09:44	06/20/25 13:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/20/25 09:44	06/20/25 13:45	1
Ethylbenzene	ND		0.050	mg/Kg		06/20/25 09:44	06/20/25 13:45	1
Toluene	ND		0.050	mg/Kg		06/20/25 09:44	06/20/25 13:45	1
Xylenes, Total	ND		0.099	mg/Kg		06/20/25 09:44	06/20/25 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			06/20/25 09:44	06/20/25 13:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13		9.7	mg/Kg		06/20/25 09:48	06/20/25 12:32	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/20/25 09:48	06/20/25 12:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			06/20/25 09:48	06/20/25 12:32	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		60	mg/Kg		06/20/25 10:19	06/20/25 12:41	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Client Sample ID: WS25-05 at 0-5ft

Lab Sample ID: 885-27207-2

Date Collected: 06/17/25 09:00

Matrix: Solid

Date Received: 06/20/25 08:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.8	mg/Kg		06/20/25 09:44	06/20/25 14:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/20/25 09:44	06/20/25 14:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019	mg/Kg		06/20/25 09:44	06/20/25 14:07	1
Ethylbenzene	ND		0.038	mg/Kg		06/20/25 09:44	06/20/25 14:07	1
Toluene	ND		0.038	mg/Kg		06/20/25 09:44	06/20/25 14:07	1
Xylenes, Total	ND		0.076	mg/Kg		06/20/25 09:44	06/20/25 14:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/20/25 09:44	06/20/25 14:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		06/20/25 09:48	06/20/25 12:43	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/20/25 09:48	06/20/25 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			06/20/25 09:48	06/20/25 12:43	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		60	mg/Kg		06/20/25 10:19	06/20/25 12:54	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Client Sample ID: BS25-12 at 5ft

Lab Sample ID: 885-27207-3

Date Collected: 06/17/25 09:10

Matrix: Solid

Date Received: 06/20/25 08:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		06/20/25 09:44	06/20/25 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			06/20/25 09:44	06/20/25 14:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		06/20/25 09:44	06/20/25 14:29	1
Ethylbenzene	ND		0.047	mg/Kg		06/20/25 09:44	06/20/25 14:29	1
Toluene	ND		0.047	mg/Kg		06/20/25 09:44	06/20/25 14:29	1
Xylenes, Total	ND		0.093	mg/Kg		06/20/25 09:44	06/20/25 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			06/20/25 09:44	06/20/25 14:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	24		9.1	mg/Kg		06/20/25 09:48	06/20/25 12:54	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/20/25 09:48	06/20/25 12:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			06/20/25 09:48	06/20/25 12:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		60	mg/Kg		06/20/25 10:19	06/20/25 13:07	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Client Sample ID: BS25-11 at 3ft

Lab Sample ID: 885-27207-4

Date Collected: 06/17/25 09:20

Matrix: Solid

Date Received: 06/20/25 08:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.5	mg/Kg		06/20/25 09:44	06/20/25 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			06/20/25 09:44	06/20/25 14:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		06/20/25 09:44	06/20/25 14:50	1
Ethylbenzene	ND		0.045	mg/Kg		06/20/25 09:44	06/20/25 14:50	1
Toluene	ND		0.045	mg/Kg		06/20/25 09:44	06/20/25 14:50	1
Xylenes, Total	ND		0.091	mg/Kg		06/20/25 09:44	06/20/25 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/20/25 09:44	06/20/25 14:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16		9.1	mg/Kg		06/20/25 09:48	06/20/25 13:05	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/20/25 09:48	06/20/25 13:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			06/20/25 09:48	06/20/25 13:05	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	550		60	mg/Kg		06/20/25 10:19	06/20/25 13:20	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Client Sample ID: BS25-32 at 3ft

Lab Sample ID: 885-27207-5

Date Collected: 06/17/25 09:30

Matrix: Solid

Date Received: 06/20/25 08:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.4	mg/Kg		06/20/25 09:44	06/20/25 15:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			06/20/25 09:44	06/20/25 15:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017	mg/Kg		06/20/25 09:44	06/20/25 15:12	1
Ethylbenzene	ND		0.034	mg/Kg		06/20/25 09:44	06/20/25 15:12	1
Toluene	ND		0.034	mg/Kg		06/20/25 09:44	06/20/25 15:12	1
Xylenes, Total	ND		0.068	mg/Kg		06/20/25 09:44	06/20/25 15:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/20/25 09:44	06/20/25 15:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	26		9.6	mg/Kg		06/20/25 09:48	06/20/25 13:16	1
Motor Oil Range Organics [C28-C40]	54		48	mg/Kg		06/20/25 09:48	06/20/25 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			06/20/25 09:48	06/20/25 13:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	440		60	mg/Kg		06/20/25 10:19	06/20/25 13:33	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Client Sample ID: BS25-10 at 3ft

Lab Sample ID: 885-27207-6

Date Collected: 06/17/25 09:40

Matrix: Solid

Date Received: 06/20/25 08:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.4	mg/Kg		06/20/25 09:44	06/20/25 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/20/25 09:44	06/20/25 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022	mg/Kg		06/20/25 09:44	06/20/25 15:34	1
Ethylbenzene	ND		0.044	mg/Kg		06/20/25 09:44	06/20/25 15:34	1
Toluene	ND		0.044	mg/Kg		06/20/25 09:44	06/20/25 15:34	1
Xylenes, Total	ND		0.089	mg/Kg		06/20/25 09:44	06/20/25 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			06/20/25 09:44	06/20/25 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		06/20/25 09:48	06/20/25 13:28	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/20/25 09:48	06/20/25 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			06/20/25 09:48	06/20/25 13:28	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	510		60	mg/Kg		06/20/25 10:19	06/20/25 14:13	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Client Sample ID: BS25-23 at 3ft

Lab Sample ID: 885-27207-7

Date Collected: 06/17/25 09:50

Matrix: Solid

Date Received: 06/20/25 08:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.0	mg/Kg		06/20/25 09:44	06/20/25 16:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			06/20/25 09:44	06/20/25 16:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020	mg/Kg		06/20/25 09:44	06/20/25 16:18	1
Ethylbenzene	ND		0.040	mg/Kg		06/20/25 09:44	06/20/25 16:18	1
Toluene	ND		0.040	mg/Kg		06/20/25 09:44	06/20/25 16:18	1
Xylenes, Total	ND		0.080	mg/Kg		06/20/25 09:44	06/20/25 16:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			06/20/25 09:44	06/20/25 16:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		06/20/25 09:48	06/20/25 13:39	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/20/25 09:48	06/20/25 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			06/20/25 09:48	06/20/25 13:39	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	460		60	mg/Kg		06/20/25 10:19	06/20/25 14:26	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Client Sample ID: BS25-27 at 3ft

Lab Sample ID: 885-27207-8

Date Collected: 06/17/25 10:00

Matrix: Solid

Date Received: 06/20/25 08:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		06/20/25 09:44	06/20/25 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/20/25 09:44	06/20/25 16:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/20/25 09:44	06/20/25 16:40	1
Ethylbenzene	ND		0.047	mg/Kg		06/20/25 09:44	06/20/25 16:40	1
Toluene	ND		0.047	mg/Kg		06/20/25 09:44	06/20/25 16:40	1
Xylenes, Total	ND		0.094	mg/Kg		06/20/25 09:44	06/20/25 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/20/25 09:44	06/20/25 16:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		06/20/25 09:48	06/20/25 13:50	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/20/25 09:48	06/20/25 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			06/20/25 09:48	06/20/25 13:50	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		60	mg/Kg		06/20/25 10:19	06/20/25 14:39	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Client Sample ID: BS25-15 at 3ft

Lab Sample ID: 885-27207-9

Date Collected: 06/17/25 10:10

Matrix: Solid

Date Received: 06/20/25 08:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.5	mg/Kg		06/20/25 09:44	06/20/25 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			06/20/25 09:44	06/20/25 17:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017	mg/Kg		06/20/25 09:44	06/20/25 17:02	1
Ethylbenzene	ND		0.035	mg/Kg		06/20/25 09:44	06/20/25 17:02	1
Toluene	ND		0.035	mg/Kg		06/20/25 09:44	06/20/25 17:02	1
Xylenes, Total	ND		0.069	mg/Kg		06/20/25 09:44	06/20/25 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			06/20/25 09:44	06/20/25 17:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	52		9.6	mg/Kg		06/20/25 09:48	06/20/25 14:01	1
Motor Oil Range Organics [C28-C40]	84		48	mg/Kg		06/20/25 09:48	06/20/25 14:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			06/20/25 09:48	06/20/25 14:01	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	580		60	mg/Kg		06/20/25 10:19	06/20/25 14:52	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

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

Lab Sample ID: MB 885-28717/1-A

Matrix: Solid

Analysis Batch: 28726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28717

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/20/25 09:30	06/20/25 11:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			06/20/25 09:30	06/20/25 11:56	1

Lab Sample ID: LCS 885-28717/3-A

Matrix: Solid

Analysis Batch: 28726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	27.1		mg/Kg		109	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	214		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28717/1-A

Matrix: Solid

Analysis Batch: 28727

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28717

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/20/25 09:30	06/20/25 11:56	1
Ethylbenzene	ND		0.050	mg/Kg		06/20/25 09:30	06/20/25 11:56	1
Toluene	ND		0.050	mg/Kg		06/20/25 09:30	06/20/25 11:56	1
Xylenes, Total	ND		0.10	mg/Kg		06/20/25 09:30	06/20/25 11:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			06/20/25 09:30	06/20/25 11:56	1

Lab Sample ID: LCS 885-28717/4-A

Matrix: Solid

Analysis Batch: 28727

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.881		mg/Kg		88	70 - 130
Ethylbenzene	1.00	0.922		mg/Kg		92	70 - 130
m,p-Xylene	2.00	1.87		mg/Kg		93	70 - 130
o-Xylene	1.00	0.929		mg/Kg		93	70 - 130
Toluene	1.00	0.887		mg/Kg		89	70 - 130
Xylenes, Total	3.00	2.80		mg/Kg		93	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		15 - 150				

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

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

Lab Sample ID: MB 885-28719/1-A

Matrix: Solid

Analysis Batch: 28707

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28719

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/20/25 09:48	06/20/25 11:36	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/20/25 09:48	06/20/25 11:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			06/20/25 09:48	06/20/25 11:36	1

Lab Sample ID: LCS 885-28719/2-A

Matrix: Solid

Analysis Batch: 28707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	50.5		mg/Kg		101	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	101		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-28722/1-A

Matrix: Solid

Analysis Batch: 28732

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28722

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		06/20/25 10:19	06/20/25 11:35	1
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Chloride	15.0		15.6	mg/Kg		104	90 - 110	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

GC VOA

Prep Batch: 28717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	5035	
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	5035	
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	5035	
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	5035	
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	5035	
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	5035	
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	5035	
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	5035	
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	5035	
MB 885-28717/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-28717/3-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-28717/4-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 28726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	8015M/D	28717
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	8015M/D	28717
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	8015M/D	28717
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	8015M/D	28717
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	8015M/D	28717
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	8015M/D	28717
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	8015M/D	28717
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	8015M/D	28717
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	8015M/D	28717
MB 885-28717/1-A	Method Blank	Total/NA	Solid	8015M/D	28717
LCS 885-28717/3-A	Lab Control Sample	Total/NA	Solid	8015M/D	28717

Analysis Batch: 28727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	8021B	28717
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	8021B	28717
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	8021B	28717
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	8021B	28717
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	8021B	28717
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	8021B	28717
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	8021B	28717
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	8021B	28717
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	8021B	28717
MB 885-28717/1-A	Method Blank	Total/NA	Solid	8021B	28717
LCS 885-28717/4-A	Lab Control Sample	Total/NA	Solid	8021B	28717

GC Semi VOA

Analysis Batch: 28707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	8015M/D	28719
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	8015M/D	28719
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	8015M/D	28719
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	8015M/D	28719
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	8015M/D	28719
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	8015M/D	28719

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QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

GC Semi VOA (Continued)

Analysis Batch: 28707 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	8015M/D	28719
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	8015M/D	28719
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	8015M/D	28719
MB 885-28719/1-A	Method Blank	Total/NA	Solid	8015M/D	28719
LCS 885-28719/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28719

Prep Batch: 28719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	SHAKE	
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	SHAKE	
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	SHAKE	
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	SHAKE	
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	SHAKE	
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	SHAKE	
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	SHAKE	
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	SHAKE	
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	SHAKE	
MB 885-28719/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28719/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 28722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	300_Prep	
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	300_Prep	
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	300_Prep	
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	300_Prep	
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	300_Prep	
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	300_Prep	
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	300_Prep	
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	300_Prep	
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	300_Prep	
MB 885-28722/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-28722/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 28732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	300.0	28722
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	300.0	28722
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	300.0	28722
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	300.0	28722
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	300.0	28722
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	300.0	28722
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	300.0	28722
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	300.0	28722
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	300.0	28722
MB 885-28722/1-A	Method Blank	Total/NA	Solid	300.0	28722
LCS 885-28722/2-A	Lab Control Sample	Total/NA	Solid	300.0	28722

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Client Sample ID: BS25-25 at 5ft

Lab Sample ID: 885-27207-1

Date Collected: 06/17/25 08:40

Matrix: Solid

Date Received: 06/20/25 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 13:45
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 13:45
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 12:32
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 12:41

Client Sample ID: WS25-05 at 0-5ft

Lab Sample ID: 885-27207-2

Date Collected: 06/17/25 09:00

Matrix: Solid

Date Received: 06/20/25 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 14:07
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 14:07
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 12:43
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 12:54

Client Sample ID: BS25-12 at 5ft

Lab Sample ID: 885-27207-3

Date Collected: 06/17/25 09:10

Matrix: Solid

Date Received: 06/20/25 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 14:29
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 14:29
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 12:54
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 13:07

Client Sample ID: BS25-11 at 3ft

Lab Sample ID: 885-27207-4

Date Collected: 06/17/25 09:20

Matrix: Solid

Date Received: 06/20/25 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 14:50

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Client Sample ID: BS25-11 at 3ft
Date Collected: 06/17/25 09:20
Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 14:50
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 13:05
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 13:20

Client Sample ID: BS25-32 at 3ft
Date Collected: 06/17/25 09:30
Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 15:12
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 15:12
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 13:16
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 13:33

Client Sample ID: BS25-10 at 3ft
Date Collected: 06/17/25 09:40
Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 15:34
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 15:34
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 13:28
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 14:13

Client Sample ID: BS25-23 at 3ft
Date Collected: 06/17/25 09:50
Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 16:18
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 16:18

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Client Sample ID: BS25-23 at 3ft
Date Collected: 06/17/25 09:50
Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 13:39
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 14:26

Client Sample ID: BS25-27 at 3ft
Date Collected: 06/17/25 10:00
Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 16:40
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 16:40
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 13:50
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 14:39

Client Sample ID: BS25-15 at 3ft
Date Collected: 06/17/25 10:10
Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 17:02
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 17:02
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 14:01
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 14:52

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27207-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5035	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-27207-1

Login Number: 27207

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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



Environment Testing

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- 11

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-27453-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization



Authorized for release by
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Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-27453-1

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Definitions/Glossary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

Glossary

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

Case Narrative

Client: Vertex
Project: B Lee State #006

Job ID: 885-27453-1

Job ID: 885-27453-1

Eurofins Albuquerque

Job Narrative 885-27453-1

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 6/25/2025 7:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

Client Sample ID: BS25-33 at 3.5ft

Lab Sample ID: 885-27453-1

Date Collected: 06/20/25 10:00

Matrix: Solid

Date Received: 06/25/25 07:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/25/25 11:50	06/26/25 12:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			06/25/25 11:50	06/26/25 12:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 12:12	1
Ethylbenzene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 12:12	1
Toluene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 12:12	1
Xylenes, Total	ND		0.10	mg/Kg		06/25/25 11:50	06/26/25 12:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/25/25 11:50	06/26/25 12:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/25/25 14:55	06/25/25 21:19	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/25/25 14:55	06/25/25 21:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			06/25/25 14:55	06/25/25 21:19	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430		60	mg/Kg		06/26/25 09:13	06/26/25 11:03	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

Client Sample ID: BS25-30 at 3.5ft

Lab Sample ID: 885-27453-2

Date Collected: 06/20/25 10:15

Matrix: Solid

Date Received: 06/25/25 07:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/25/25 11:50	06/26/25 13:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			06/25/25 11:50	06/26/25 13:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 13:18	1
Ethylbenzene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 13:18	1
Toluene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 13:18	1
Xylenes, Total	ND		0.10	mg/Kg		06/25/25 11:50	06/26/25 13:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			06/25/25 11:50	06/26/25 13:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	30		9.7	mg/Kg		06/25/25 14:55	06/25/25 21:32	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/25 14:55	06/25/25 21:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			06/25/25 14:55	06/25/25 21:32	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	340		60	mg/Kg		06/26/25 09:13	06/26/25 11:44	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

Client Sample ID: BS25-31 at 3.5ft

Lab Sample ID: 885-27453-3

Date Collected: 06/20/25 10:20

Matrix: Solid

Date Received: 06/25/25 07:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/25/25 11:50	06/26/25 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/25/25 11:50	06/26/25 14:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 14:23	1
Ethylbenzene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 14:23	1
Toluene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 14:23	1
Xylenes, Total	ND		0.10	mg/Kg		06/25/25 11:50	06/26/25 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/25/25 11:50	06/26/25 14:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38		9.4	mg/Kg		06/25/25 14:55	06/25/25 21:44	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/25/25 14:55	06/25/25 21:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			06/25/25 14:55	06/25/25 21:44	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		60	mg/Kg		06/26/25 09:13	06/26/25 11:57	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

Client Sample ID: BS25-34 at 3.5ft

Lab Sample ID: 885-27453-4

Date Collected: 06/20/25 10:30

Matrix: Solid

Date Received: 06/25/25 07:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		06/25/25 11:50	06/26/25 14:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/25/25 11:50	06/26/25 14:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 14:44	1
Ethylbenzene	ND		0.049	mg/Kg		06/25/25 11:50	06/26/25 14:44	1
Toluene	ND		0.049	mg/Kg		06/25/25 11:50	06/26/25 14:44	1
Xylenes, Total	ND		0.099	mg/Kg		06/25/25 11:50	06/26/25 14:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/25/25 11:50	06/26/25 14:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/25/25 14:55	06/25/25 21:56	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/25 14:55	06/25/25 21:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			06/25/25 14:55	06/25/25 21:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	360		60	mg/Kg		06/26/25 09:13	06/26/25 12:11	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

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

Lab Sample ID: MB 885-28980/1-A

Matrix: Solid

Analysis Batch: 29066

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28980

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/25/25 11:50	06/26/25 11:50	1

Lab Sample ID: LCS 885-28980/2-A

Matrix: Solid

Analysis Batch: 29066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	32.5		mg/Kg		130	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	220		15 - 150				

Lab Sample ID: 885-27453-1 MS

Matrix: Solid

Analysis Batch: 29066

Client Sample ID: BS25-33 at 3.5ft

Prep Type: Total/NA

Prep Batch: 28980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		24.9	30.1		mg/Kg		121	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	214		15 - 150						

Lab Sample ID: 885-27453-1 MSD

Matrix: Solid

Analysis Batch: 29066

Client Sample ID: BS25-33 at 3.5ft

Prep Type: Total/NA

Prep Batch: 28980

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.8	32.0		mg/Kg		129	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	220		15 - 150								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28980/1-A

Matrix: Solid

Analysis Batch: 29067

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28980

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Ethylbenzene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Toluene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 11:50	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

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

Lab Sample ID: MB 885-28980/1-A

Matrix: Solid

Analysis Batch: 29067

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28980

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/25/25 11:50	06/26/25 11:50	1

Lab Sample ID: LCS 885-28980/3-A

Matrix: Solid

Analysis Batch: 29067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.920		mg/Kg		92	70 - 130
Ethylbenzene	1.00	0.948		mg/Kg		95	70 - 130
m,p-Xylene	2.00	1.91		mg/Kg		96	70 - 130
o-Xylene	1.00	0.954		mg/Kg		95	70 - 130
Toluene	1.00	0.918		mg/Kg		92	70 - 130
Xylenes, Total	3.00	2.87		mg/Kg		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		15 - 150				

Lab Sample ID: 885-27453-2 MS

Matrix: Solid

Analysis Batch: 29067

Client Sample ID: BS25-30 at 3.5ft

Prep Type: Total/NA

Prep Batch: 28980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.994	0.915		mg/Kg		92	70 - 130
Ethylbenzene	ND		0.994	0.961		mg/Kg		97	70 - 130
m,p-Xylene	ND		1.99	1.92		mg/Kg		96	70 - 130
o-Xylene	ND		0.994	0.957		mg/Kg		96	70 - 130
Toluene	ND		0.994	0.909		mg/Kg		91	70 - 130
Xylenes, Total	ND		2.98	2.87		mg/Kg		96	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		15 - 150						

Lab Sample ID: 885-27453-2 MSD

Matrix: Solid

Analysis Batch: 29067

Client Sample ID: BS25-30 at 3.5ft

Prep Type: Total/NA

Prep Batch: 28980

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.992	0.899		mg/Kg		91	70 - 130	2	20
Ethylbenzene	ND		0.992	0.943		mg/Kg		95	70 - 130	2	20
m,p-Xylene	ND		1.98	1.91		mg/Kg		96	70 - 130	0	20
o-Xylene	ND		0.992	0.952		mg/Kg		96	70 - 130	1	20
Toluene	ND		0.992	0.900		mg/Kg		91	70 - 130	1	20
Xylenes, Total	ND		2.98	2.86		mg/Kg		96	70 - 130	0	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

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

Lab Sample ID: 885-27453-2 MSD

Matrix: Solid

Analysis Batch: 29067

Client Sample ID: BS25-30 at 3.5ft

Prep Type: Total/NA

Prep Batch: 28980

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		15 - 150

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

Lab Sample ID: MB 885-29010/1-A

Matrix: Solid

Analysis Batch: 28954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29010

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/25/25 14:55	06/25/25 20:55	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/25/25 14:55	06/25/25 20:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			06/25/25 14:55	06/25/25 20:55	1

Lab Sample ID: LCS 885-29010/2-A

Matrix: Solid

Analysis Batch: 28954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	31.7		mg/Kg		63	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	84		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-29059/1-A

Matrix: Solid

Analysis Batch: 29071

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29059

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		06/26/25 09:13	06/26/25 10:35	1

Lab Sample ID: LCS 885-29059/2-A

Matrix: Solid

Analysis Batch: 29071

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.4		mg/Kg		96	90 - 110

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

GC VOA

Prep Batch: 28980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	5030C	
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	5030C	
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	5030C	
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	5030C	
MB 885-28980/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-27453-1 MS	BS25-33 at 3.5ft	Total/NA	Solid	5030C	
885-27453-1 MSD	BS25-33 at 3.5ft	Total/NA	Solid	5030C	
885-27453-2 MS	BS25-30 at 3.5ft	Total/NA	Solid	5030C	
885-27453-2 MSD	BS25-30 at 3.5ft	Total/NA	Solid	5030C	

Analysis Batch: 29066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	8015M/D	28980
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	8015M/D	28980
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	8015M/D	28980
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	8015M/D	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8015M/D	28980
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28980
885-27453-1 MS	BS25-33 at 3.5ft	Total/NA	Solid	8015M/D	28980
885-27453-1 MSD	BS25-33 at 3.5ft	Total/NA	Solid	8015M/D	28980

Analysis Batch: 29067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	8021B	28980
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	8021B	28980
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	8021B	28980
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	8021B	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8021B	28980
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	8021B	28980
885-27453-2 MS	BS25-30 at 3.5ft	Total/NA	Solid	8021B	28980
885-27453-2 MSD	BS25-30 at 3.5ft	Total/NA	Solid	8021B	28980

GC Semi VOA

Analysis Batch: 28954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	8015M/D	29010
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	8015M/D	29010
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	8015M/D	29010
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	8015M/D	29010
MB 885-29010/1-A	Method Blank	Total/NA	Solid	8015M/D	29010
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29010

Prep Batch: 29010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	SHAKE	
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	SHAKE	
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	SHAKE	
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

GC Semi VOA (Continued)

Prep Batch: 29010 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-29010/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 29059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	300_Prep	
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	300_Prep	
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	300_Prep	
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	300_Prep	
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 29071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	300.0	29059
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	300.0	29059
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	300.0	29059
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	300.0	29059
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300.0	29059
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300.0	29059

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

Client Sample ID: BS25-33 at 3.5ft

Lab Sample ID: 885-27453-1

Date Collected: 06/20/25 10:00

Matrix: Solid

Date Received: 06/25/25 07:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 12:12
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 12:12
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 21:19
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 11:03

Client Sample ID: BS25-30 at 3.5ft

Lab Sample ID: 885-27453-2

Date Collected: 06/20/25 10:15

Matrix: Solid

Date Received: 06/25/25 07:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 13:18
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 13:18
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 21:32
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 11:44

Client Sample ID: BS25-31 at 3.5ft

Lab Sample ID: 885-27453-3

Date Collected: 06/20/25 10:20

Matrix: Solid

Date Received: 06/25/25 07:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 14:23
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 14:23
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 21:44
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 11:57

Client Sample ID: BS25-34 at 3.5ft

Lab Sample ID: 885-27453-4

Date Collected: 06/20/25 10:30

Matrix: Solid

Date Received: 06/25/25 07:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 14:44

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

Client Sample ID: BS25-34 at 3.5ft
Date Collected: 06/20/25 10:30
Date Received: 06/25/25 07:25

Lab Sample ID: 885-27453-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 14:44
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 21:56
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 12:11

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27453-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Released to Imaging: 8/20/2025 8:31:12 AM

☐ EDD (Type)

HEAL No.

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	Remarks: Direct Bill to Mack Energy ATTN: Matt Buckles CC: Sally Carttar (SCarttar@vertexresource.com), Permian@vertexresource.com, and Sharon Minnix (SMinnix@vertexresource.com) for Final Report.
4/1/05	1300	Sharon Minnix	AS Minnix		4/27/05	1300	
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	
6/27/05	1900	AS Minnix	[Signature]	courier	6/27/05	7:25	

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

ATEX / MTBE / TMB's (8021)	X	X	X	X
TPH:8015D(GRO / DRO / MRO)	X	X		
8081 Pesticides/8082 PCB's				
EDB (Method 504.1)				
PAHs by 8310 or 8270SIMS				
RCRA 8 Metals				
Cl ⁻ , F ⁻ , Br ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ⁻ , SO ₄ ⁻	X	X	X	X
8260 (VOA)				
8270 (Semi-VOA)				
Total Coliform (Present/Absent)				

Received by OCD: 7/15/2025 12:00:18 AM

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

11 10 9 8 7 6 5 4 3 2 1

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-27453-1

Login Number: 27453

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	



Environment Testing

- 1
- 2
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- 7
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- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/27/2025 12:34:04 PM

JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-27455-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)338-8812

Generated
6/27/2025 12:34:04 PM

Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-27455-1

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Definitions/Glossary

Client: Vertex

Job ID: 885-27455-1

Project/Site: B Lee State #006

Glossary

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

Case Narrative

Client: Vertex
Project: B Lee State #006

Job ID: 885-27455-1

Job ID: 885-27455-1

Eurofins Albuquerque

Job Narrative 885-27455-1

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 6/25/2025 7:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27455-1

Client Sample ID: BS25-29 at 3.5ft

Lab Sample ID: 885-27455-1

Date Collected: 06/23/25 09:00

Matrix: Solid

Date Received: 06/25/25 07:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		06/25/25 11:50	06/26/25 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			06/25/25 11:50	06/26/25 15:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/25/25 11:50	06/26/25 15:06	1
Ethylbenzene	ND		0.047	mg/Kg		06/25/25 11:50	06/26/25 15:06	1
Toluene	ND		0.047	mg/Kg		06/25/25 11:50	06/26/25 15:06	1
Xylenes, Total	ND		0.095	mg/Kg		06/25/25 11:50	06/26/25 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			06/25/25 11:50	06/26/25 15:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	39		9.5	mg/Kg		06/25/25 14:55	06/25/25 22:09	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/25/25 14:55	06/25/25 22:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	78		62 - 134			06/25/25 14:55	06/25/25 22:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66		60	mg/Kg		06/26/25 09:13	06/26/25 12:25	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27455-1

Client Sample ID: BS25-35 at 4ft

Lab Sample ID: 885-27455-2

Date Collected: 06/23/25 09:30

Matrix: Solid

Date Received: 06/25/25 07:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		06/25/25 11:50	06/26/25 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			06/25/25 11:50	06/26/25 15:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/25/25 11:50	06/26/25 15:28	1
Ethylbenzene	ND		0.048	mg/Kg		06/25/25 11:50	06/26/25 15:28	1
Toluene	ND		0.048	mg/Kg		06/25/25 11:50	06/26/25 15:28	1
Xylenes, Total	ND		0.095	mg/Kg		06/25/25 11:50	06/26/25 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/25/25 11:50	06/26/25 15:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/25/25 14:55	06/25/25 22:21	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/25 14:55	06/25/25 22:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			06/25/25 14:55	06/25/25 22:21	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95		60	mg/Kg		06/26/25 09:13	06/26/25 12:38	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27455-1

Client Sample ID: BS25-36 at 3.5ft

Lab Sample ID: 885-27455-3

Date Collected: 06/23/25 09:40

Matrix: Solid

Date Received: 06/25/25 07:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		06/25/25 11:50	06/26/25 15:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			06/25/25 11:50	06/26/25 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 15:49	1
Ethylbenzene	ND		0.049	mg/Kg		06/25/25 11:50	06/26/25 15:49	1
Toluene	ND		0.049	mg/Kg		06/25/25 11:50	06/26/25 15:49	1
Xylenes, Total	ND		0.098	mg/Kg		06/25/25 11:50	06/26/25 15:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/25/25 11:50	06/26/25 15:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	30		9.5	mg/Kg		06/25/25 14:55	06/25/25 22:34	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/25/25 14:55	06/25/25 22:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			06/25/25 14:55	06/25/25 22:34	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		60	mg/Kg		06/26/25 09:13	06/26/25 13:19	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27455-1

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

Lab Sample ID: MB 885-28980/1-A

Matrix: Solid

Analysis Batch: 29066

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28980

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/25/25 11:50	06/26/25 11:50	1

Lab Sample ID: LCS 885-28980/2-A

Matrix: Solid

Analysis Batch: 29066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	32.5		mg/Kg		130	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	220		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28980/1-A

Matrix: Solid

Analysis Batch: 29067

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28980

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Ethylbenzene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Toluene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Xylenes, Total	ND		0.10	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/25/25 11:50	06/26/25 11:50	1

Lab Sample ID: LCS 885-28980/3-A

Matrix: Solid

Analysis Batch: 29067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.920		mg/Kg		92	70 - 130
Ethylbenzene	1.00	0.948		mg/Kg		95	70 - 130
m,p-Xylene	2.00	1.91		mg/Kg		96	70 - 130
o-Xylene	1.00	0.954		mg/Kg		95	70 - 130
Toluene	1.00	0.918		mg/Kg		92	70 - 130
Xylenes, Total	3.00	2.87		mg/Kg		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		15 - 150				

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27455-1

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

Lab Sample ID: MB 885-29010/1-A

Matrix: Solid

Analysis Batch: 28954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29010

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/25/25 14:55	06/25/25 20:55	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/25/25 14:55	06/25/25 20:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			06/25/25 14:55	06/25/25 20:55	1

Lab Sample ID: LCS 885-29010/2-A

Matrix: Solid

Analysis Batch: 28954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Diesel Range Organics [C10-C28]	50.0	31.7		mg/Kg		63	51 - 148	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Di-n-octyl phthalate (Surr)	84		62 - 134					

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-29059/1-A

Matrix: Solid

Analysis Batch: 29071

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29059

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		06/26/25 09:13	06/26/25 10:35	1
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Chloride	15.0		14.4	mg/Kg		96	90 - 110	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27455-1

GC VOA

Prep Batch: 28980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27455-1	BS25-29 at 3.5ft	Total/NA	Solid	5030C	
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	5030C	
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	5030C	
MB 885-28980/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 29066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27455-1	BS25-29 at 3.5ft	Total/NA	Solid	8015M/D	28980
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	8015M/D	28980
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	8015M/D	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8015M/D	28980
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28980

Analysis Batch: 29067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27455-1	BS25-29 at 3.5ft	Total/NA	Solid	8021B	28980
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	8021B	28980
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	8021B	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8021B	28980
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	8021B	28980

GC Semi VOA

Analysis Batch: 28954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27455-1	BS25-29 at 3.5ft	Total/NA	Solid	8015M/D	29010
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	8015M/D	29010
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	8015M/D	29010
MB 885-29010/1-A	Method Blank	Total/NA	Solid	8015M/D	29010
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29010

Prep Batch: 29010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27455-1	BS25-29 at 3.5ft	Total/NA	Solid	SHAKE	
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	SHAKE	
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	SHAKE	
MB 885-29010/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 29059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27455-1	BS25-29 at 3.5ft	Total/NA	Solid	300_Prep	
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	300_Prep	
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	300_Prep	
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27455-1

HPLC/IC

Analysis Batch: 29071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27455-1	BS25-29 at 3.5ft	Total/NA	Solid	300.0	29059
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	300.0	29059
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	300.0	29059
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300.0	29059
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300.0	29059

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27455-1

Client Sample ID: BS25-29 at 3.5ft

Lab Sample ID: 885-27455-1

Date Collected: 06/23/25 09:00

Matrix: Solid

Date Received: 06/25/25 07:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 15:06
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 15:06
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 22:09
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 12:25

Client Sample ID: BS25-35 at 4ft

Lab Sample ID: 885-27455-2

Date Collected: 06/23/25 09:30

Matrix: Solid

Date Received: 06/25/25 07:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 15:28
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 15:28
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 22:21
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 12:38

Client Sample ID: BS25-36 at 3.5ft

Lab Sample ID: 885-27455-3

Date Collected: 06/23/25 09:40

Matrix: Solid

Date Received: 06/25/25 07:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 15:49
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 15:49
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 22:34
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 13:19

Laboratory References:

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

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27455-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Chain-of-Custody Record

Client: Vertex (bill to [REDACTED])
Mack Energy, Matt BucklesMailing Address: 3101 Boyd Dr
Carlsbad, New Mexico

Phone #: 575.725.5001

email or Fax#:

QA/QC Package:

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

Turn-Around Time: 48 hr

X Rush ([REDACTED])

Project Name:

B Lee State #006

Project #:

25A-01934

Project Manager:

Sally Carttar

SCarttar@vertexresource.com

Sampler: Sharon Minnix

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 26°C = 78°F

Container
Type and #Preservative
Type

HEAL No.

Date Time Matrix Sample Name

6.23.25 9:00 Soil BS25-29 at 3.5ft

6.23.25 9:30 Soil BS25-35 at 4ft

6.23.25 9:40 Soil BS25-36 at 3.5ft

1, 4oz jar

ICE

1, 4oz jar

ICE

1, 4oz jar

ICE

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87106

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



885-27455 COC

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Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/27/25	19:00	[Signature]	[Signature]		6/25/25	7:25

Remarks: Direct Bill to Mack Energy ATTN: Matt Buckles
CC: Sally Carttar (SCarttar@vertexresource.com),
Permian@vertexresource.com, and Sharon Minnix
(SMinnix@vertexresource.com) for Final Report.

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-27455-1

Login Number: 27455

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/27/2025 12:34:29 PM

JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-27456-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)338-8812

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Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-27456-1

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Definitions/Glossary

Client: Vertex

Job ID: 885-27456-1

Project/Site: B Lee State #006

Glossary

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

Case Narrative

Client: Vertex
Project: B Lee State #006

Job ID: 885-27456-1

Job ID: 885-27456-1

Eurofins Albuquerque

Job Narrative 885-27456-1

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 6/25/2025 7:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27456-1

Client Sample ID: BS25-04 at 3.5ft

Lab Sample ID: 885-27456-1

Date Collected: 06/19/25 12:00

Matrix: Solid

Date Received: 06/25/25 07:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		06/25/25 11:50	06/26/25 16:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			06/25/25 11:50	06/26/25 16:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 16:11	1
Ethylbenzene	ND		0.049	mg/Kg		06/25/25 11:50	06/26/25 16:11	1
Toluene	ND		0.049	mg/Kg		06/25/25 11:50	06/26/25 16:11	1
Xylenes, Total	ND		0.099	mg/Kg		06/25/25 11:50	06/26/25 16:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/25/25 11:50	06/26/25 16:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/25/25 14:55	06/25/25 22:46	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/25 14:55	06/25/25 22:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			06/25/25 14:55	06/25/25 22:46	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		60	mg/Kg		06/26/25 09:13	06/26/25 13:33	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27456-1

Client Sample ID: WS25-07 at 0-3ft

Lab Sample ID: 885-27456-2

Date Collected: 06/19/25 12:30

Matrix: Solid

Date Received: 06/25/25 07:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		06/25/25 11:50	06/26/25 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150	06/25/25 11:50	06/26/25 16:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/25/25 11:50	06/26/25 16:33	1
Ethylbenzene	ND		0.048	mg/Kg		06/25/25 11:50	06/26/25 16:33	1
Toluene	ND		0.048	mg/Kg		06/25/25 11:50	06/26/25 16:33	1
Xylenes, Total	ND		0.095	mg/Kg		06/25/25 11:50	06/26/25 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150	06/25/25 11:50	06/26/25 16:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		06/25/25 14:55	06/25/25 23:11	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/25/25 14:55	06/25/25 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134	06/25/25 14:55	06/25/25 23:11	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67		60	mg/Kg		06/26/25 09:13	06/26/25 13:47	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27456-1

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

Lab Sample ID: MB 885-28980/1-A

Matrix: Solid

Analysis Batch: 29066

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28980

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/25/25 11:50	06/26/25 11:50	1

Lab Sample ID: LCS 885-28980/2-A

Matrix: Solid

Analysis Batch: 29066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	32.5		mg/Kg		130	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	220		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28980/1-A

Matrix: Solid

Analysis Batch: 29067

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28980

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Ethylbenzene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Toluene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Xylenes, Total	ND		0.10	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/25/25 11:50	06/26/25 11:50	1

Lab Sample ID: LCS 885-28980/3-A

Matrix: Solid

Analysis Batch: 29067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.920		mg/Kg		92	70 - 130
Ethylbenzene	1.00	0.948		mg/Kg		95	70 - 130
m,p-Xylene	2.00	1.91		mg/Kg		96	70 - 130
o-Xylene	1.00	0.954		mg/Kg		95	70 - 130
Toluene	1.00	0.918		mg/Kg		92	70 - 130
Xylenes, Total	3.00	2.87		mg/Kg		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		15 - 150				

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27456-1

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

Lab Sample ID: MB 885-29010/1-A

Matrix: Solid

Analysis Batch: 28954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29010

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/25/25 14:55	06/25/25 20:55	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/25/25 14:55	06/25/25 20:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			06/25/25 14:55	06/25/25 20:55	1

Lab Sample ID: LCS 885-29010/2-A

Matrix: Solid

Analysis Batch: 28954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	31.7		mg/Kg		63	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	84		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-29059/1-A

Matrix: Solid

Analysis Batch: 29071

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29059

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		06/26/25 09:13	06/26/25 10:35	1

Lab Sample ID: LCS 885-29059/2-A

Matrix: Solid

Analysis Batch: 29071

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.4		mg/Kg		96	90 - 110

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27456-1

GC VOA

Prep Batch: 28980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	5030C	
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	5030C	
MB 885-28980/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 29066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	8015M/D	28980
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	8015M/D	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8015M/D	28980
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28980

Analysis Batch: 29067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	8021B	28980
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	8021B	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8021B	28980
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	8021B	28980

GC Semi VOA

Analysis Batch: 28954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	8015M/D	29010
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	8015M/D	29010
MB 885-29010/1-A	Method Blank	Total/NA	Solid	8015M/D	29010
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29010

Prep Batch: 29010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	SHAKE	
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	SHAKE	
MB 885-29010/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 29059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	300_Prep	
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	300_Prep	
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 29071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	300.0	29059
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	300.0	29059
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300.0	29059
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300.0	29059

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27456-1

Client Sample ID: BS25-04 at 3.5ft
Date Collected: 06/19/25 12:00
Date Received: 06/25/25 07:25

Lab Sample ID: 885-27456-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 16:11
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 16:11
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 22:46
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 13:33

Client Sample ID: WS25-07 at 0-3ft
Date Collected: 06/19/25 12:30
Date Received: 06/25/25 07:25

Lab Sample ID: 885-27456-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 16:33
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 16:33
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 23:11
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 13:47

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-27456-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Released to Imaging: 8/20/2025 8:31:12 AM

Received by OCD: 7/15/2025 12:00:18 AM

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-27456-1

Login Number: 27456

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/9/2025 3:24:10 PM

JOB DESCRIPTION

B Lee State #006

JOB NUMBER

885-28074-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization



Authorized for release by
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(505)338-8812

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Client: Vertex
Project/Site: B Lee State #006

Laboratory Job ID: 885-28074-1

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Definitions/Glossary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-28074-1

Qualifiers

GC Semi VOA

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

Glossary

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

Case Narrative

Client: Vertex
Project: B Lee State #006

Job ID: 885-28074-1

Job ID: 885-28074-1

Eurofins Albuquerque

Job Narrative 885-28074-1

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

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

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

Receipt

The samples were received on 7/3/2025 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-29622 and analytical batch 885-29570 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

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Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-28074-1

Client Sample ID: BS25-15 3.5'

Lab Sample ID: 885-28074-1

Date Collected: 07/02/25 10:30

Matrix: Solid

Date Received: 07/03/25 07:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3	mg/Kg		07/07/25 09:22	07/07/25 12:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			07/07/25 09:22	07/07/25 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.016	mg/Kg		07/07/25 09:22	07/07/25 12:23	1
Ethylbenzene	ND		0.033	mg/Kg		07/07/25 09:22	07/07/25 12:23	1
Toluene	ND		0.033	mg/Kg		07/07/25 09:22	07/07/25 12:23	1
Xylenes, Total	ND		0.065	mg/Kg		07/07/25 09:22	07/07/25 12:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			07/07/25 09:22	07/07/25 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		07/07/25 14:52	07/07/25 16:02	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		07/07/25 14:52	07/07/25 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134			07/07/25 14:52	07/07/25 16:02	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		07/07/25 10:24	07/07/25 11:57	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-28074-1

Client Sample ID: WS25-08 3-5'

Lab Sample ID: 885-28074-2

Date Collected: 07/02/25 09:30

Matrix: Solid

Date Received: 07/03/25 07:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.1	mg/Kg		07/07/25 09:22	07/07/25 12:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			07/07/25 09:22	07/07/25 12:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021	mg/Kg		07/07/25 09:22	07/07/25 12:45	1
Ethylbenzene	ND		0.041	mg/Kg		07/07/25 09:22	07/07/25 12:45	1
Toluene	ND		0.041	mg/Kg		07/07/25 09:22	07/07/25 12:45	1
Xylenes, Total	ND		0.082	mg/Kg		07/07/25 09:22	07/07/25 12:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			07/07/25 09:22	07/07/25 12:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	F1	9.9	mg/Kg		07/07/25 14:52	07/07/25 16:52	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/07/25 14:52	07/07/25 16:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	82		62 - 134			07/07/25 14:52	07/07/25 16:52	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59	mg/Kg		07/07/25 10:24	07/07/25 12:07	20

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Client Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-28074-1

Client Sample ID: WS25-09 0-4'

Lab Sample ID: 885-28074-3

Date Collected: 07/02/25 09:55

Matrix: Solid

Date Received: 07/03/25 07:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3	mg/Kg		07/07/25 09:22	07/07/25 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			07/07/25 09:22	07/07/25 13:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017	mg/Kg		07/07/25 09:22	07/07/25 13:07	1
Ethylbenzene	ND		0.033	mg/Kg		07/07/25 09:22	07/07/25 13:07	1
Toluene	ND		0.033	mg/Kg		07/07/25 09:22	07/07/25 13:07	1
Xylenes, Total	ND		0.066	mg/Kg		07/07/25 09:22	07/07/25 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			07/07/25 09:22	07/07/25 13:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		07/07/25 14:53	07/07/25 23:08	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		07/07/25 14:53	07/07/25 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	86		62 - 134			07/07/25 14:53	07/07/25 23:08	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		07/07/25 10:24	07/07/25 12:17	20

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-28074-1

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

Lab Sample ID: MB 885-29595/1-A

Matrix: Solid

Analysis Batch: 29608

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29595

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		07/07/25 09:22	07/07/25 12:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			07/07/25 09:22	07/07/25 12:01	1

Lab Sample ID: LCS 885-29595/2-A

Matrix: Solid

Analysis Batch: 29608

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	27.3		mg/Kg		109	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	208		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-29595/1-A

Matrix: Solid

Analysis Batch: 29609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29595

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		07/07/25 09:22	07/07/25 12:01	1
Ethylbenzene	ND		0.050	mg/Kg		07/07/25 09:22	07/07/25 12:01	1
Toluene	ND		0.050	mg/Kg		07/07/25 09:22	07/07/25 12:01	1
Xylenes, Total	ND		0.10	mg/Kg		07/07/25 09:22	07/07/25 12:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			07/07/25 09:22	07/07/25 12:01	1

Lab Sample ID: LCS 885-29595/3-A

Matrix: Solid

Analysis Batch: 29609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.978		mg/Kg		98	70 - 130
Ethylbenzene	1.00	0.980		mg/Kg		98	70 - 130
m,p-Xylene	2.00	1.97		mg/Kg		99	70 - 130
o-Xylene	1.00	0.987		mg/Kg		99	70 - 130
Toluene	1.00	0.951		mg/Kg		95	70 - 130
Xylenes, Total	3.00	2.96		mg/Kg		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		15 - 150				

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-28074-1

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

Lab Sample ID: MB 885-29622/1-A

Matrix: Solid

Analysis Batch: 29570

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29622

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/07/25 14:52	07/07/25 15:38	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/07/25 14:52	07/07/25 15:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			07/07/25 14:52	07/07/25 15:38	1

Lab Sample ID: LCS 885-29622/2-A

Matrix: Solid

Analysis Batch: 29570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	63.1		mg/Kg		126	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	89		62 - 134				

Lab Sample ID: 885-28074-2 MS

Matrix: Solid

Analysis Batch: 29570

Client Sample ID: WS25-08 3-5'

Prep Type: Total/NA

Prep Batch: 29622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND	F1	48.5	32.8		mg/Kg		68	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	91		62 - 134						

Lab Sample ID: 885-28074-2 MSD

Matrix: Solid

Analysis Batch: 29570

Client Sample ID: WS25-08 3-5'

Prep Type: Total/NA

Prep Batch: 29622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND	F1	49.6	42.5		mg/Kg		86	44 - 136	26	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	88		62 - 134								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-29584/1-A

Matrix: Solid

Analysis Batch: 29591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29584

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		07/07/25 10:24	07/07/25 11:37	1

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QC Sample Results

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-28074-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-29584/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 29591				Prep Batch: 29584			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.6		mg/Kg		97	90 - 110

QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-28074-1

GC VOA

Prep Batch: 29595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	5035	
885-28074-2	WS25-08 3-5'	Total/NA	Solid	5035	
885-28074-3	WS25-09 0-4'	Total/NA	Solid	5035	
MB 885-29595/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-29595/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-29595/3-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 29608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	8015M/D	29595
885-28074-2	WS25-08 3-5'	Total/NA	Solid	8015M/D	29595
885-28074-3	WS25-09 0-4'	Total/NA	Solid	8015M/D	29595
MB 885-29595/1-A	Method Blank	Total/NA	Solid	8015M/D	29595
LCS 885-29595/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29595

Analysis Batch: 29609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	8021B	29595
885-28074-2	WS25-08 3-5'	Total/NA	Solid	8021B	29595
885-28074-3	WS25-09 0-4'	Total/NA	Solid	8021B	29595
MB 885-29595/1-A	Method Blank	Total/NA	Solid	8021B	29595
LCS 885-29595/3-A	Lab Control Sample	Total/NA	Solid	8021B	29595

GC Semi VOA

Analysis Batch: 29570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	8015M/D	29622
885-28074-2	WS25-08 3-5'	Total/NA	Solid	8015M/D	29622
885-28074-3	WS25-09 0-4'	Total/NA	Solid	8015M/D	29622
MB 885-29622/1-A	Method Blank	Total/NA	Solid	8015M/D	29622
LCS 885-29622/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29622
885-28074-2 MS	WS25-08 3-5'	Total/NA	Solid	8015M/D	29622
885-28074-2 MSD	WS25-08 3-5'	Total/NA	Solid	8015M/D	29622

Prep Batch: 29622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	SHAKE	
885-28074-2	WS25-08 3-5'	Total/NA	Solid	SHAKE	
885-28074-3	WS25-09 0-4'	Total/NA	Solid	SHAKE	
MB 885-29622/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-29622/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-28074-2 MS	WS25-08 3-5'	Total/NA	Solid	SHAKE	
885-28074-2 MSD	WS25-08 3-5'	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 29584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	300_Prep	
885-28074-2	WS25-08 3-5'	Total/NA	Solid	300_Prep	
885-28074-3	WS25-09 0-4'	Total/NA	Solid	300_Prep	

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QC Association Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-28074-1

HPLC/IC (Continued)

Prep Batch: 29584 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-29584/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-29584/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 29591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	300.0	29584
885-28074-2	WS25-08 3-5'	Total/NA	Solid	300.0	29584
885-28074-3	WS25-09 0-4'	Total/NA	Solid	300.0	29584
MB 885-29584/1-A	Method Blank	Total/NA	Solid	300.0	29584
LCS 885-29584/2-A	Lab Control Sample	Total/NA	Solid	300.0	29584

Lab Chronicle

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-28074-1

Client Sample ID: BS25-15 3.5'
Date Collected: 07/02/25 10:30
Date Received: 07/03/25 07:45

Lab Sample ID: 885-28074-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			29595	AT	EET ALB	07/07/25 09:22
Total/NA	Analysis	8015M/D		1	29608	AT	EET ALB	07/07/25 12:23
Total/NA	Prep	5035			29595	AT	EET ALB	07/07/25 09:22
Total/NA	Analysis	8021B		1	29609	AT	EET ALB	07/07/25 12:23
Total/NA	Prep	SHAKE			29622	EM	EET ALB	07/07/25 14:52
Total/NA	Analysis	8015M/D		1	29570	EM	EET ALB	07/07/25 16:02
Total/NA	Prep	300_Prep			29584	MA	EET ALB	07/07/25 10:24
Total/NA	Analysis	300.0		20	29591	MA	EET ALB	07/07/25 11:57

Client Sample ID: WS25-08 3-5'
Date Collected: 07/02/25 09:30
Date Received: 07/03/25 07:45

Lab Sample ID: 885-28074-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			29595	AT	EET ALB	07/07/25 09:22
Total/NA	Analysis	8015M/D		1	29608	AT	EET ALB	07/07/25 12:45
Total/NA	Prep	5035			29595	AT	EET ALB	07/07/25 09:22
Total/NA	Analysis	8021B		1	29609	AT	EET ALB	07/07/25 12:45
Total/NA	Prep	SHAKE			29622	EM	EET ALB	07/07/25 14:52
Total/NA	Analysis	8015M/D		1	29570	EM	EET ALB	07/07/25 16:52
Total/NA	Prep	300_Prep			29584	MA	EET ALB	07/07/25 10:24
Total/NA	Analysis	300.0		20	29591	MA	EET ALB	07/07/25 12:07

Client Sample ID: WS25-09 0-4'
Date Collected: 07/02/25 09:55
Date Received: 07/03/25 07:45

Lab Sample ID: 885-28074-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			29595	AT	EET ALB	07/07/25 09:22
Total/NA	Analysis	8015M/D		1	29608	AT	EET ALB	07/07/25 13:07
Total/NA	Prep	5035			29595	AT	EET ALB	07/07/25 09:22
Total/NA	Analysis	8021B		1	29609	AT	EET ALB	07/07/25 13:07
Total/NA	Prep	SHAKE			29622	EM	EET ALB	07/07/25 14:53
Total/NA	Analysis	8015M/D		1	29570	EM	EET ALB	07/07/25 23:08
Total/NA	Prep	300_Prep			29584	MA	EET ALB	07/07/25 10:24
Total/NA	Analysis	300.0		20	29591	MA	EET ALB	07/07/25 12:17

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: B Lee State #006

Job ID: 885-28074-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5035	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Chain-of-Custody Record

Client: Vertex (Bill to Mack Energy)
(Matt Buckles)Mailing Address: 3101 Bay DriveCarlsbad NMPhone #: 575-725-5001

email or Fax#:

QA/QC Package:

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

Turn-Around Time:

☐ Standard☒ Rush24-hr

Project Name:

B Lee State #006

Project #:

25A-01934

Project Manager:

Sally CarttarSCarttar@vertexresource.comSampler: L. PullmanOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CF): 23 to 22.5°CContainer
Type and #Preservative
Type

HEAL No.

Date Time Matrix Sample Name

7-2-25	10:30	Soil	BS25-15 3-5'
7-2-25	09:30	Soil	WS25-08 3-5'
7-2-25	09:55	Soil	WS25-09 0-4'

1 Jar

-1

1 Jar

-2

1 Jar

-3

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MFO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

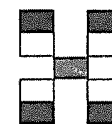
Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Analysis Request

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

885-28074 COC

4901 Hawkins NE - Albuquerque, NM 87109

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

Date Time Relinquished by
7-2-25 15:20 L. PullmanDate Time Relinquished by
7/2/25 19:00 [Signature]Received by Via Date Time
[Signature] 7/2/25 15:20Received by Via Date Time
[Signature] 7/3/25 7:45Remarks: Direct Bill to Mack Energy ATTN: Matt Buckles
CC: Sally Carttar (SCarttar@vertexresource.com)
Permian@vertexresource.com, and L. Pullman@vertexresource.com
for final Report.

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-28074-1

Login Number: 28074

List Source: Eurofins Albuquerque

List Number: 1

Creator: Proctor, Nancy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

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

QUESTIONS

Action 484632

QUESTIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 484632
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2510568312
Incident Name	NAPP2510568312 B LEE STATE #006 @ 30-025-39673
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-39673] B LEE STATE #006

Location of Release Source

Please answer all the questions in this group.

Site Name	B Lee State #006
Date Release Discovered	04/15/2025
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Oil 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	Cause: Corrosion Flow Line - Production Crude Oil Released: 15 BBL Recovered: 2 BBL Lost: 13 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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 484632

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 484632
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

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	False
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	Release occurred outside of containment.

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: Sally Carttar Title: Consultant Email: scarttar@vertex.ca Date: 04/21/2025
--	---

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QUESTIONS, Page 3

Action 484632

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 484632
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 300 and 500 (ft.)
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	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<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
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	327
GRO+DRO (EPA SW-846 Method 8015M)	87
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	06/05/2025
On what date will (or did) the final sampling or liner inspection occur	07/02/2025
On what date will (or was) the remediation complete(d)	06/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	6291
What is the estimated volume (in cubic yards) that will be reclaimed	772
What is the estimated surface area (in square feet) that will be remediated	6291
What is the estimated volume (in cubic yards) that will be remediated	772
<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 484632

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID:
	13837
	Action Number:
	484632
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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: Sally Carttar Title: Consultant Email: scarttar@vertex.ca Date: 07/14/2025
<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 484632

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 484632
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 484632

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 484632
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	480106
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/02/2025
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	6291
What was the total volume (cubic yards) remediated	772
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	6291
What was the total volume (in cubic yards) reclaimed	772
Summarize any additional remediation activities not included by answers (above)	As detailed in attached report.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Sally Carttar Title: Consultant Email: scarttar@vertex.ca Date: 07/14/2025

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QUESTIONS, Page 7

Action 484632

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 484632
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 484632

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 484632
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2510568312 B LEE STATE #006, thank you. This Remediation Closure Report is approved.	8/20/2025